

BEST AVAILABLE COPY

SN 5821

In Reply Refer To: LE-3-1
OCS-G 4326

November 13, 1986⁸⁷

ACTION

Southern Natural Gas Company

Right-of-Way

Relinquishment of Right-of-Way Grant
Abandonment of Pipeline

On May 1, 1980, Southern Natural Gas Company filed an application for a right-of-way two hundred feet (200') in width for the construction, maintenance, and operation of a 6.625-inch natural gas pipeline, 1.80 miles in length, from Diamond Shamrock Corporation's Caisson No. 1 in Block 115, across Block 116, to a subsea tie-in with Southern Natural Gas Company's proposed 8.625-inch pipeline (OCS-G 4325) in Block 117, all of which are located in Main Pass Area. By Action dated July 10, 1980, the application was approved and the right-of-way granted. Proof of construction was subsequently accepted on October 28, 1987.

On October 28, 1987, Southern Natural Gas Company requested relinquishment of the right-of-way in its entirety. Grantee indicated that because of Diamond Shamrock Exploration Company's expedited removal of the Caisson No. 1 and associated production facilities in Block 115, Main Pass Area, the pipeline associated with the above right-of-way was abandoned in place.

In accordance with 30 CFR 256.89(a)(6), removal of the 1.80 miles of line pipe is hereby waived subject to the following:

1. The line will be purged to remove materials that, if released, could be harmful to the marine environment.
2. All open ends of the pipe will be plugged and buried to a minimum cover of three feet.

Therefore, the pipeline right-of-way grant is relinquished effective as of October 28, 1987, the date the request for relinquishment was filed in this office.

Original Signed: J. Rogers Percy

J. Rogers Percy
Regional Director

bcc: SEQ(256.89)(LE-3-1)

on map
5/16/88
K7

SN 5821



United States Department of the Interior

MINERALS MANAGEMENT SERVICE GULF OF MEXICO OCS REGION

1201 ELMWOOD PARK BOULEVARD
NEW ORLEANS, LOUISIANA 70123-2394



In Reply Refer To: LE-3-1
OCS-G 4326

November 13, 1986

ACTION

Southern Natural Gas Company

Right-of-Way

Relinquishment of Right-of-Way Grant Abandonment of Pipeline

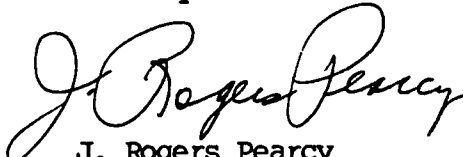
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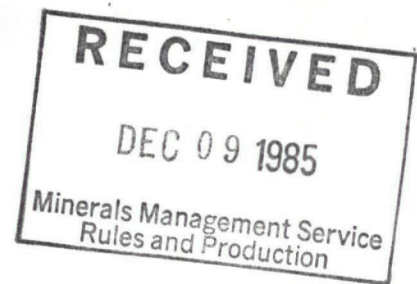
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1. The line will be purged to remove materials that, if released, could be harmful to the marine environment.
2. All open ends of the pipe will be plugged and buried to a minimum cover of three feet.

Therefore, the pipeline right-of-way grant is relinquished effective as of October 28, 1987, the date the request for relinquishment was filed in this office.


J. Rogers Pearcy
Regional Director

SOUTHERN NATURAL GAS



December 2, 1985

RECEIVED

OCT 18 1987
28

Minerals Management Service
Leasing & Environment

Mr. John L. Rankin, Regional Director
United States Department Of The Interior
Minerals Management Service
Gulf Of Mexico OCS Region
Imperial Office Building
3301 North Causeway Boulevard
Post Office Box 7944
Metairie, Louisiana 70010
Attention: Mr. Autry Britton, RP-2-2

Re: Southern Natural Gas Company's Proposed Relinquishment Of Its
Right-Of-Way Grant OCS-G-4326 And Abandonment In Place Of A Portion
Of The 6.625 Inch O.D. Natural Gas Pipeline Which Was Installed
Pursuant To It, In Blocks 115, 116 And 117 Of The Main Pass Area

Gentlemen:

On November 1, 1985, Diamond Shamrock Exploration Company officially notified Southern Natural Gas Company that it planned to immediately begin removing its Caisson No. 1 and associated production facilities in Block 115 of the Main Pass Area.

Therefore, Southern Natural Gas Company abandoned in place a portion of the 6.625-inch O.D. natural gas pipeline according to the procedure outlined in Attachment A which is enclosed herewith and made a part hereof.

Southern Natural Gas Company now proposes to relinquish its right-of-way grant OCS-G-4326 dated July 10, 1980, which was issued for the above said 6.625-inch O.D. pipeline.

We herewith request your expeditious review and approval of our proposal and the acceptance of this relinquishment which we hereby file with you in triplicate.

Due to the time frame imposed on us by Diamond Shamrock Exploration Company's expedited removal of facilities plan, we would greatly appreciate receiving your approval of our abandonment procedure as soon as possible.

ACCEPTED
J. Roger Kearney
Regional Director
Effective Date OCT 28 1987

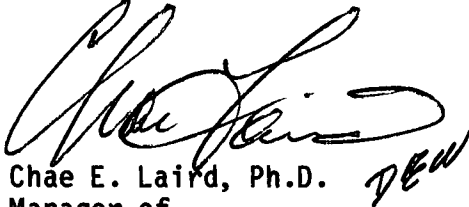
Mr. John L. Rankin
Metairie, Louisiana 70010
December 2, 1985

Page -2-

Please refer to your New Orleans Miscellaneous File No. 010 for our corporation papers and to the enclosed certification indicating the undersigns authority to execute this application.

Should there be any questions or additional information needed, please contact our Mr. Donald E. Wallis, Telephone Number (205) 325-7406 and direct all correspondence relating to this matter to him.

Very truly yours,

A handwritten signature in black ink, appearing to read 'Chae E. Laird', with a stylized flourish at the end.

Chae E. Laird, Ph.D.
Manager of
Environmental Affairs

CEL/DEW/k11
Attachments

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OCT 18 1987
28

Minerals Management Service
Leasing & Environment

RECEIVED

OCT 18 1987

28

Minerals Management Service
Leasing & Environment

CERTIFIED STATEMENT OF AUTHORITY

I, the undersigned R. David Hendrickson, Secretary of Southern Natural Gas Company (Company), a Delaware corporation, do hereby certify that the following is a true and correct copy of certain resolutions duly adopted at a meeting of the Board of Directors of the Company on July 22, 1985, and said resolutions are in full force and effect on the date hereof:

"RESOLVED, that the following directors and/or officers of the Company (and such other officers and employees to whom such authority may be delegated as in this resolution provided), without further action by the Board of Directors, shall have the following powers and responsibilities, subject to the conditions and limitations stated herein:

<u>Directors and/or Officers</u>	<u>Approval Limitation</u>
Ronald L. Kuehn, Jr.	\$6,000,000
Hugh J. Morgan, Jr.	\$4,000,000
William E. Matthews, IV	\$2,500,000

. . .

- D. To execute and deliver in the name and on behalf of the Company any and all agreements, contracts, instruments, agreements, leases, licenses, permits and other documents requiring or pertaining to expenditures, commitments or dispositions of property described in paragraphs A through C of this resolution, provided that such expenditure, commitment or disposition of property has been approved in accordance with this resolution or by the Board of Directors in accordance with the resolutions which immediately follow; and to delegate this authority in writing, in whole or in part, to any officer or officers or employee or employees of the Company or Sonat Inc. or one of their subsidiaries.

- E. To authorize any officer or officers or employee or employees to whom any authority has been delegated pursuant to paragraphs A through D of this resolution to redelegate in writing to any officer or officers or employee or employees (and in turn to redelegate) all or any part of the authority so delegated, subject to the limitations set forth in such paragraphs A through D; provided that all such redelegations of authority to approve expenditures, commitments or dispositions of property in excess of \$250,000 must be approved in writing by one of the officers named in this resolution whose approval authority is within the approval limits of the redelegation;"

I do further certify that pursuant to Resolution E provided hereinabove and the Company's Delegation of Authority Schedules published in the Company's Policy and Procedure Manual, Chae Laird has been delegated the authority to execute on behalf of the Company the instant application.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of the Company this 5th day of December, 1985.

TP David Newbuck
Secretary

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OCT 13 1987
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Minerals Management Service
Leasing & Environment

(SEAL)

ATTACHMENT A

ABANDONMENT IN PLACE OF A PORTION OF THE FACILITIES
INSTALLED PURSUANT TO OCS-G-4326

All of Southern Natural Gas Company's facilities which were installed on Diamond Shamrock Corporation's Caisson No. 1 in Block 115 of the Main Pass Area have already been or will shortly be removed and salvaged. The riser piping will also be removed and salvaged and the pipeline will be disconnected from Southern Natural Gas Company's natural gas transmission system at the subsea tie-in in Block 117 of the Main Pass Area.

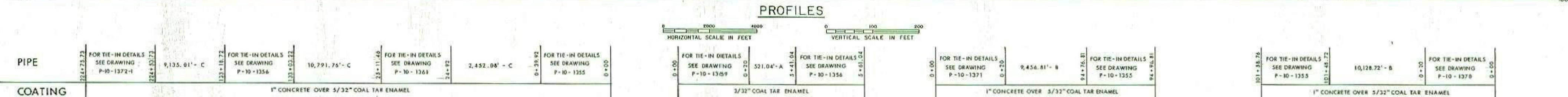
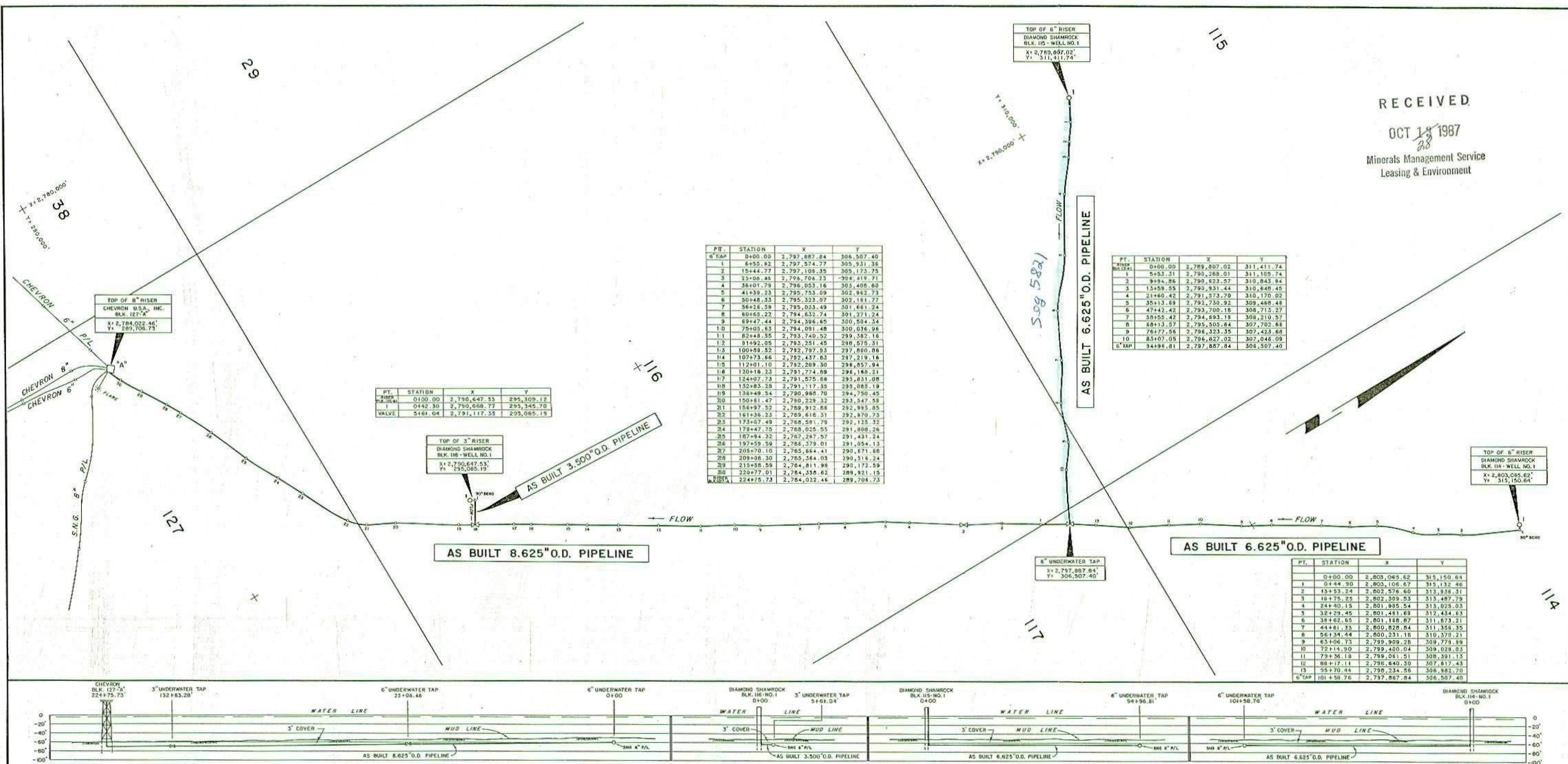
A poly-pig will be forced through the 6.625-inch O.D. pipeline using seawater. This poly-pig will evacuate any condensate which might have accumulated in the pipeline as well as the natural gas which is in it. The material which is pushed out of the pipeline will be caught in a holding tank or barge and will be properly disposed of. The seawater which pushed the poly-pig will be left in the pipeline to insure that there is no gas in it. The riser piping and the subsea tie-in assembly will be removed from the pipeline and the ends of the pipeline will be capped. Both ends of the pipeline will then be lowered and jetted down so that they will have a minimum of three feet of cover.

There were no taps installed on this pipeline and it was installed with a minimum of three feet of cover so there should be no hazard involved in abandoning this 1.8 miles of 6.625-inch O.D. pipeline from the location of the Caisson in Block 115 through a portion of Block 116 and into Block 117 to the location of the subsea tie-in, the overall route of which is highlighted in blue on the attached SNG Drawing Number P-30E-158.

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OCT 13 1987
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Minerals Management Service
Leasing & Environment



LEGEND	INSET	REFERENCE DRAWINGS	REFERENCE DRAWINGS
A = 3.500" O.D. x 0.300" W.T., API-5L-GR.B, LINE PIPE	<p>TYPICAL R/W DETAIL</p>	BLM-5 BUREAU OF LAND MANAGEMENT	P-10-1369 TIE-IN DETAILS
B = 6.625" O.D. x 0.432" W.T., API-5LX-42, LINE PIPE		BLM-5-1 BUREAU OF LAND MANAGEMENT	P-10-1370 TIE-IN DETAILS
C = 6.625" O.D. x 0.500" W.T., API-5LX-42, LINE PIPE		BLM-5-2 BUREAU OF LAND MANAGEMENT	P-10-1371 TIE-IN DETAILS
		BLM-5-3 BUREAU OF LAND MANAGEMENT	P-10-1372-1 TIE-IN DETAILS
		BLM-5-4 BUREAU OF LAND MANAGEMENT	P-30E-159 ALIGNMENT MAP
		BLM-5-5 BUREAU OF LAND MANAGEMENT	
		PEW-210 CORPS OF ENGINEERS PERMIT	
		PEW-210-1 CORPS OF ENGINEERS PERMIT	
		PEW-210-2 CORPS OF ENGINEERS PERMIT	
		PEW-210-3 CORPS OF ENGINEERS PERMIT	
		P-10-1355 TIE-IN DETAILS	
		P-10-1256 TIE-IN DETAILS	
		P-10-1261 TIE-IN DETAILS	

CERTIFIED CORRECT AS TO HORIZONTAL
POSITION OF PIPELINES.

Shuble D. Tenney
Registered Land Surveyor No. 4335
State of Louisiana
John E. Chance & Associates, Inc.



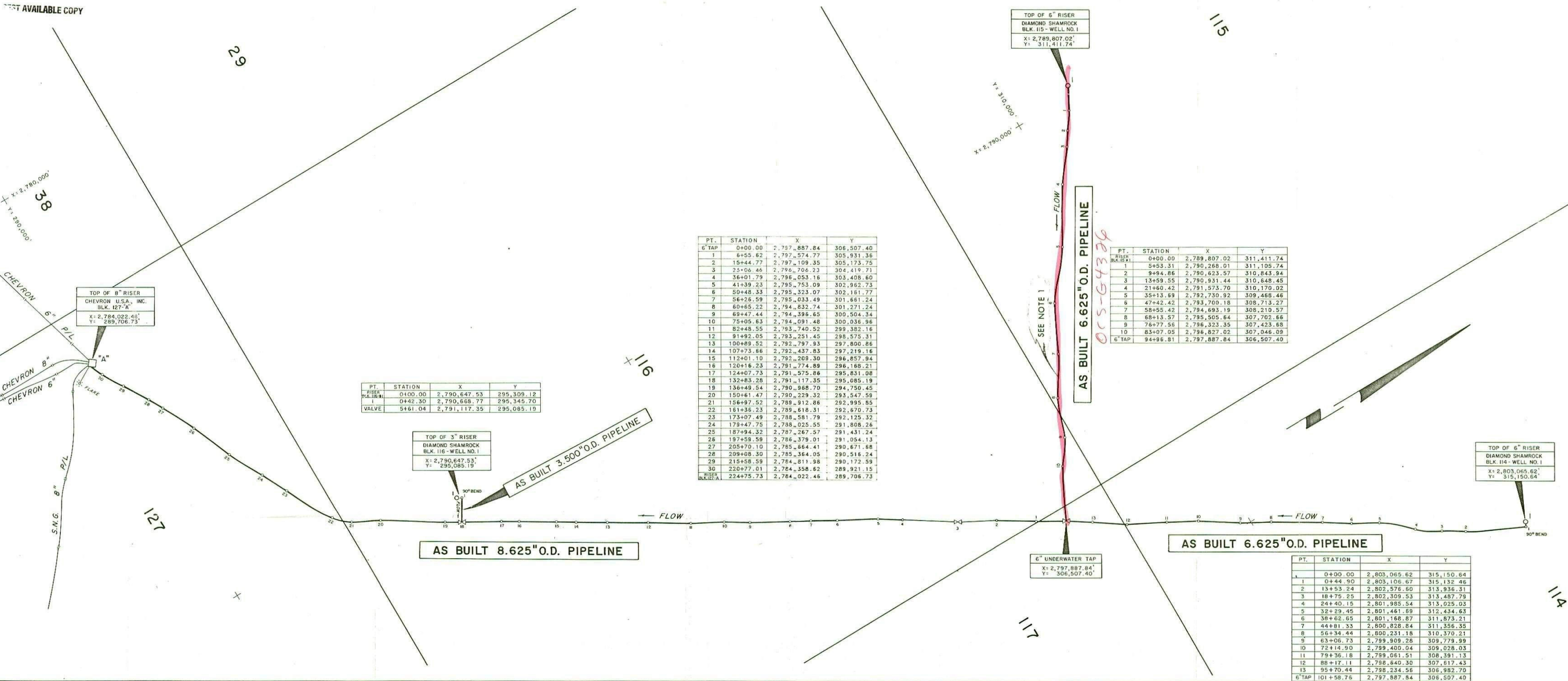
TOCA DISTRICT, AUTH. NO. 80-101-14

SOUTHERN NATURAL GAS CO.
ENGINEERING DEPARTMENT
BIRMINGHAM, ALA.

AS BUILT PIPE LINES IN
BLOCKS 114, 115, 116, 117 & 127
MAIN PASS AREA

[illegible]

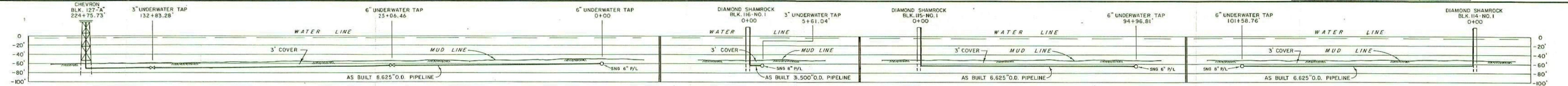
OCS-G 4326



PT.	STATION	X	Y
6 TAP	0+00.00	2,797,887.84	306,507.40
1	6+55.62	2,797,574.77	305,931.36
2	15+44.77	2,797,109.35	305,173.75
3	25+06.46	2,796,706.23	304,419.71
4	36+01.79	2,796,053.16	303,408.60
5	41+39.23	2,795,753.09	302,962.73
6	50+48.33	2,795,323.07	302,161.77
7	56+26.59	2,795,033.49	301,661.24
8	60+65.22	2,794,832.74	301,271.24
9	69+47.44	2,794,396.65	300,504.34
10	75+05.83	2,794,091.48	300,036.96
11	82+48.55	2,793,740.52	299,382.16
12	91+92.05	2,793,251.45	298,575.31
13	100+89.52	2,792,797.93	297,800.86
14	107+73.66	2,792,437.83	297,219.16
15	112+01.10	2,792,209.30	296,857.94
16	120+16.23	2,791,774.89	296,168.21
17	124+07.73	2,791,575.86	295,831.08
18	132+83.28	2,791,177.35	295,085.19
19	136+49.54	2,790,968.70	294,750.45
20	150+61.47	2,790,229.32	293,547.59
21	156+97.52	2,789,912.86	292,995.85
22	161+36.23	2,789,618.31	292,670.73
23	173+07.49	2,788,581.79	292,125.32
24	179+47.75	2,788,025.55	291,808.26
25	187+94.32	2,787,267.57	291,431.24
26	197+59.59	2,786,379.01	291,054.13
27	205+70.10	2,785,664.41	290,671.68
28	209+08.30	2,785,364.05	290,516.24
29	215+58.59	2,784,811.98	290,172.59
30	220+77.01	2,784,358.62	289,921.15
BLK 127-A	224+75.73	2,784,022.48	289,706.73

PT.	STATION	X	Y
1	0+00.00	2,789,807.02	311,411.74
2	5+53.31	2,790,268.01	311,105.74
3	9+94.86	2,790,623.57	310,843.94
4	13+59.55	2,790,931.44	310,648.45
5	21+60.42	2,791,573.70	310,170.02
6	35+13.69	2,792,730.92	309,468.46
7	47+42.42	2,793,700.18	308,713.27
8	58+55.42	2,794,693.19	308,210.57
9	68+13.57	2,795,505.64	307,702.66
10	76+77.56	2,796,323.35	307,423.68
11	83+07.05	2,796,827.02	307,046.09
6 TAP	94+96.81	2,797,887.84	306,507.40

PT.	STATION	X	Y
1	0+00.00	2,803,065.62	315,150.64
2	0+44.90	2,803,106.67	315,132.46
3	13+53.24	2,802,576.60	313,936.31
4	18+75.25	2,802,309.53	313,487.79
5	24+40.15	2,801,985.54	313,025.03
6	32+29.45	2,801,461.69	312,434.63
7	38+62.65	2,801,168.87	311,873.21
8	44+01.33	2,800,828.84	311,356.35
9	56+34.44	2,800,231.18	310,370.21
10	63+06.73	2,799,909.28	309,779.99
11	72+14.90	2,799,400.04	309,028.03
12	79+36.18	2,799,061.51	308,391.13
13	88+17.11	2,798,640.30	307,617.43
14	95+70.44	2,798,234.56	306,982.70
6 TAP	101+58.76	2,797,887.84	306,507.40



PROFILES



PIPE	FOR TIE-IN DETAILS SEE DRAWING P-10-1372-1	9,135.01' - C	FOR TIE-IN DETAILS SEE DRAWING P-10-1356	10,791.76' - C	FOR TIE-IN DETAILS SEE DRAWING P-10-1361	2,452.08' - C	FOR TIE-IN DETAILS SEE DRAWING P-10-1355	0+00
COATING	1" CONCRETE OVER 5/32" COAL TAR ENAMEL		1" CONCRETE OVER 5/32" COAL TAR ENAMEL		1" CONCRETE OVER 5/32" COAL TAR ENAMEL		1" CONCRETE OVER 5/32" COAL TAR ENAMEL	

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NOTES:
1. NOV. 1985 - ABANDONED IN PLACE, FILLED WITH WATER AND CAPPED.

CERTIFIED CORRECT AS TO HORIZONTAL POSITION OF PIPELINES.

Shubert D. Tenney Jr.
Registered Land Surveyor No. 4335
State of Louisiana
John E. Chance & Associates, Inc.



TOCA DISTRICT, AUTH. NO. 80-101-14

SOUTHERN NATURAL GAS CO.
ENGINEERING DEPARTMENT
BIRMINGHAM, ALA.

AS BUILT PIPE LINES IN
BLOCKS 114, 115, 116, 117 & 127
MAIN PASS AREA

DATE 10/18/80
SCALE 1" = 1000'
DRAWN BY J.E.C. & S.G.
CHECKED [Signature]
DWG. NO. A P-30E-158

REVISIONS

NO.	DATE	DESCRIPTION	BY	CHK'D	APP'D	APP'D
1	12-12-85	ADDED NOTE 1		R.D.M.	H.A.D.	[Signature]

SHEET 2 OF 2
DIVISION

OCS-G 4327

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SOUTHERN NATURAL GAS

May 19, 1988



Mr. J. Rogers Pearcy, Regional Director
United States Department Of The Interior
Minerals Management Service
Gulf of Mexico OCS Region
1201 Elmwood Park Boulevard
New Orleans, Louisiana 70123-2394

Attention: Mr. Autry Britton

Re: Proposed Relinquishment of Southern Natural
Gas Company's Right-of-Way Grant Numbers: ~~4325~~, ~~000-G-4327~~, ~~000-G-4328~~ and ~~000-G-4329~~, All
Being Located In The Main Pass Area, Offshore,
Louisiana

Gentlemen:

This is to confirm my recent telephone conversations with Mr. Autry Britton regarding our proposed plans for our facilities which were installed pursuant to the above-referenced grants.

Southern Natural Gas Company (Southern) is currently involved in negotiations with Diamond Shamrock Offshore Partners Limited Partnership's managing general partner, Diamond Shamrock Offshore Exploration Company (Diamond Shamrock), for the sell of Southern's facilities, which were installed pursuant to the above-referenced grants, to Diamond Shamrock.

Autry advised in our conversations that we could not assign these grants to Diamond Shamrock as they were a party to the lease on the blocks that these facilities were in and they would have to send in a lease term application to cover them.

Therefore, this is to confirm our proposed plans to relinquish our said grants as soon as the referenced negotiations are concluded and to request that you begin the review and approval process of the lease term applications that Diamond Shamrock is in the process of preparing to file with you. It is hoped that their application will be ready for approval pending your receipt of our formal relinquishment so that when the said negotiations are finalized, Diamond Shamrock will be in a position to commence their proposed work on the facilities involved.

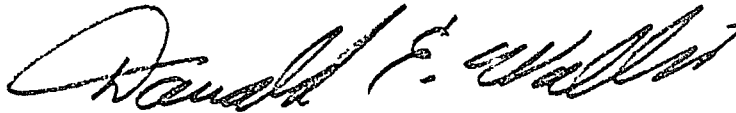
Mr. J. Rogers Percy, Regional Director
New Orleans, Louisiana 70123-2394
May 19, 1988

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Page -2-

If there are any questions or additional information needed, please telephone me at Telephone Number (205) 325-7406.

Very truly yours,

A handwritten signature in dark ink, appearing to read "Donald E. Wallis". The signature is fluid and cursive, with the first name "Donald" being the most prominent.

Donald E. Wallis
Environmental Permit Coordinator

DEW/klw
(Federal Express Airbill No. 618821402)

cc: Mr. Tom Bechel
Diamond Shamrock Offshore Partners
Limited Partnership
3040 Post Oak Blvd.
Suite 2200
Houston, Texas 77056
(Federal Express Airbill No. 618821413)

Proof of Construction Accepted 10/28/87

BILLING INDEX

BILLING DATE ☐ Bond Fund symbol (Acq. lands only) Serial No. OCS-G 4326
☐ No bond Expiration date Type P/L R/W

Effective date lease issued, assignment, or report on structure	Units (Acres, miles, etc.)	Total rental rate	County distribution of total rental rate	County distribution (County name)	BILLS ISSUED			
Year of lease	Date issued	Year of lease	Date issued					
7/10/80	1.80 Mi.	\$15.00	\$30.00	Blocks 115, 116, 117, Main Pass Area	1980	7/10/80 pd.	6th	12/1/85 pd.
					2d	1981 pd.	7th	12/1/86 pd.
					3d	1982 pd.	8th	
					4th	1983 pd.	9th	
					5th	1984 pd.	10th	
Relinquished OCT 28 1987								

Name	Address
Principal Southern Natural Gas Company	P. O. Box 2563
	Birmingham, Alabama 35202

Assignee of undivided interest

Operator

4326 P/L Southern Natural Gas Company

SN 5821

Britton 10-27-87
Howard 10/27/87

Stauffer 10/27/87

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In Reply Refer To: FO-2-2
OCS-G 4326

OCT 28 1987

ACTION

Southern Natural Gas Company : Pipe Line Right-of-Way
: :
: Date of Permit: 7-10-80
: :
: Letters Requesting Proof of
: Construction Dated: 4-16-86 and
: 9-14-87
: :
: Proof of Construction
: Received: 10-13-87

Proof of Construction Accepted

The above-captioned grantee has submitted the evidence required by the law and Regulation 30 CFR 256.95(a). The proof of construction is hereby accepted and approved. Deviation from the original plat has been noted, and the new plat made a part of the record.

The maximum allowable operating pressure (MAOP) for this pipeline will be 2,134 psig due to the MAOP of the receiving pipeline (OCS-G 4325).

The total length of the "as-built" pipeline right-of-way is 1.80 miles.

for 1st Chris Dwyer
J. Rogers Pearcy
Regional Director

bcc: P/L OCS-G 4326 (w/attachments) (K. Faust) (FO-2-2)
P/L OCS-G 4326 (FO-2-2)
ORD Reading File
OPS-6 (w/copy of location plat)
L. Boehm (LE-3-1)

ABritton:mcs:10/27/87:LEXITYPE Disk 6

on map
10/28/87
K7

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SOUTHERN NATURAL GAS

OCS-G 4326
9,496.81 FEET
OR
1.799 MILES
DEW

October 12, 1987

Mr. Autry Britton
United States Department of the Interior
Minerals Management Service
Gulf Of Mexico OCS Region
1201 Elmwood Park Boulevard
New Orleans, Louisiana 70123-2394

Re: FO-2-2

Proof of Construction Information on Southern Natural
Gas Company's Offshore Pipelines Installed Under
Right-Of-Way Grant Numbers:

OCS-G 4153, OCS-G 4325, OCS-G 4326, OCS-G 4327
OCS-G 4328, OCS-G 4329, OCS-G 4338, OCS-G 4364
OCS-G 4365, OCS-G 4607, OCS-G 4624, OCS-G 4849
OCS-G 4980 & OCS-G 5129

Dear Autry:

Reference is made to Mr. Pearcy's letter dated September 14, 1987,
regarding our above-referenced fourteen (14) pipeline rights-of-way
grants and the request for information regarding proof of
construction.

Per my conversation with you regarding this matter, please find
enclosed herewith a separate and appropriately marked package for
each of the above-referenced grants. At your request, each of the
fourteen (14) packages enclosed has a copy of this letter for a
cover page, so that they may be readily filed in your offices. On
each of these cover letters, I have written the OCS-G number for
that package as well as the as-built footage and milage for the
pipeline. Each package also has two copies of the hydrostatic
test and three prints of the stamped as-built drawings for that
pipeline. Note that in a few of the packages there is an additional
as-built drawing that is not stamped. These were included as they
have our drawing number on them and were made because the originals
were revised to as-built status by redrawing them.

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Mr. Autry Britton
New Orleans, Louisiana 70123-2394
October 12, 1987

Page -2-

I trust that the enclosed information is sufficient. If there are any questions or should additional information be needed, please telephone me at Telephone Number (205) 325-7406.

Very truly yours,

A handwritten signature in cursive script, reading "Donald E. Wallis".

Donald E. Wallis
Environmental Permit Coordinator

DEW/klw
Enclosure
(Federal Express Airbill No. 3318971762)

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005-G 4326

FORM NO.
16-277

REPORT OF PRESSURE TEST

ORIGINAL

005-G 4325

26

28

~~29~~

DATE OF TEST 10/2, 10/3/80

DESCRIPTION OF FACILITY TESTED 6" MAIN PASS BLOCK 115 LINE, M.P. 0.000 TO M.P. 1.797
& 6" and 8" M. PASS BLOCK 114 TO BLOCK 127 LINE, M.P. 0.000 TO 6.147 (NEW CONSTRUCTION)

AUTH. - 80-101-15, 80-101-16

DWG. NO'S - P-10-1372, P-10-1372-1, P-10-1355, P-10-1371, P-305-158

TYPE TEST (X) Hydrostatic

() Gas

() Air

TEST PRESSURE 3180 PSI

DURATION 18 hours 40 min

FAILURES: Location _____

Cause _____

Method of Repair _____

Name

Title

Witness for

(Contractor)

Name

Title

Witness for SOUTHERN NATURAL GAS CO.

J. D. L.

W. K. E. S.

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SOUTHERN NATURAL GAS COMPANY
HYDROSTATIC TEST RECORD

SECTION UNDER TEST

Description: 6" MAIN PASS BLK 115 LINE M.P. 0.000 TO M.P. 1.797 (NEW CONSTRUCTION)

6" & 8" MAIN PASS BLK 114 TO M.P. BLK 127 LINE, M.P. 0.000 TO M.P. 6.147
NUT. 80-101-1
80-101-1

Miles in Section: 7.944

Pipe Size & Min. Yield: 6" x 432 wt x 42 MYP = 5477 psi

8" x 500 wt x 42 MYP = 4369 psi

Begin Test Date: 10-2-80 Time: 10:05 PM

End Test Date: 10-3-80 Time: 4:45 PM

TEST PRESSURE

Pressure at Pump: 3180 psi

Location of Pump: M.P. 6.147 ON MAIN PASS BLK 114
TO 127 LINE - TOP OF RISER

Max. Pressure in Section: 3239 psi

Location of Max. Pressure: M.P. 0.000 ON 6" MAIN PASS BLK 115
LINE - BOTTOM OF RISER

Min. Pressure in Section: 3180 psi

Location of Min. Pressure: M.P. 6.147 ON MAIN PASS BLK 114
TO 127 LINE - TOP OF RISER

INSPECTOR (SNG)

James A. Baing Jr.
Meas. Tech.

Name of Testing Contractor and Person in Charge

Ford Dickey

REMARKS

CHK
EVS

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SOUTHERN NATURAL GAS / ANY
HYDROSTATIC TEST R. 0Sheet 1 of 2
Date 10-2-80
10-3-80

TEST DATA SHEETS

SECTION UNDER TEST (New Construction)

TIME	PRESSURE				TEMP. #	Auth. 80-101-15 80-101-16	REMARKS
	#1	#2	#3	#4			
:45							
8:00							4" P. 31k. 115 line I.P. 0.000 to I.P. 1.797
:15							6" & 8" I.P. 31k. 114 to I.P. 31k. 127 line
:30							I.P. 0.000 to I.P. 6.147.
:45							DWT. P-10-1372, P-10-1372-1, P-10-1355, P-10-1371
9:00							P-30E-158
:15							
:30							Fill water temperature 81°
:45							
10:05 pm	3180				79°	80°	
:15	3178						
:30	3177				79°	80°	
:45	3176						
11:00	3175						
:15	3174						
:30	3173				78°	80°	
:45	3173						
12:00	3172						
:15 am	3172					(10-3-80)	
:30	3171				78°	80°	
:45	3171						Repressured at 12:48 am.
1:00	3180						
:15	3180						
:30	3179				77°	80°	
:45	3179						
2:00	3178						
:15	3177						
:30	3177				75°	79°	
:45	3176						
3:00	3176						
:15	3175						
:30	3175				75°	79°	
:45	3175						
4:00	3174						
:15	3174						
:30	3174				73°	79°	
:45	3173						
5:00	3173						
:15	3173						
:30	3172				73°	79°	
:45	3172						Repressured at 5:50 am.
6:00	3185						
:15	3185						
:30	3185				72°	79°	
:45	3184						
7:00	3184						
:15	3184						
:30	3184				72°	78°	
<div style="display: flex; justify-content: space-between;"> <div> #1 I.P. 6.147 Test Site DWT. #2573 Elevation +0.73 (SN) #2 _____ #3 _____ #4 _____ </div> <div> <u>Location</u> </div> </div>							

SOUTHERN NATURAL GAS COMPANY
HYDROSTATIC TEST RECORD

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Sheet 2 of 2
 Date 10-2-80
10-3-80

TEST DATA SHEETS

SECTION UNDER TEST (New Construction)

TIME	PRESSURE				TEMP. #	Auth. 80-101-15 80-101-16	REMARKS
	#1	#2	#3	#4			
:45	3183						
8:00	3183						
:15	3183						
:30	3183				74°	78°	
:45	3183						
9:00	3182						
:15	3182						
:30	3182				74°	78°	
:45	3182						
10:00	3181						
:15	3181						
:30	3181				74°	78°	
:45	3180						
11:00	3180						
:15	3180						
:30	3180				74°	78°	
:45	3180						
12:00	3180						
:15 pm	3179						
:30	3179				73°	77°	
:45	3179						
1:00	3179						
:15	3178						
:30	3178				73°	77°	
:45	3178						
2:00	3177						
:15	3177						
:30	3177				73°	77°	
:45	3176						
3:00	3176						
:15	3176						
:30	3176				74°	77°	
:45	3176						
4:00	3176						
:15	3176						
:30	3176				74°	78°	
:45	3176				74°	78°	Test complete at 4:45 pm.
5:00							
:15							6" H.P. 31k. 115 line H.P. 0.000 to M.P. 1.797
:30							6" & 8" H.P. 31k. 114 to M.P. 31k. 127 line
:45							M.P. 0.000 to M.P. 6.147
6:00							DM. P-10-1372, P-10-1355, P-10-1372-1, P-10-1371
:15							P-30E-158
:30							
:45							
7:00							
:15							
:30							

#1 M.P. 6.147 Test Site IT. #2573 Elevation +0.73 (SNG)

Location #2 _____

#3 _____

#4 _____

J. D.
WBS *2/5*

FORM NO.
16-277

REPORT OF PRESSURE TEST

BEST AVAILABLE COPY

ORIGINAL

DATE OF TEST 7-29-80

DESCRIPTION OF FACILITY TESTED 2-6" Taps Shamrock Blk. 114 & Futrure Tap

1-3" Tap Shamrock Blk. 116 OCS-G 4329

Auth: 80-101-15, 80-101-16, 80-101-17

DWG: P-10-1355, P-10-1356, P-10-1361

TYPE TEST ☒ Hydrostatic

☐ Gas

☐ Air

TEST PRESSURE 32 1/2

DURATION 4 hours

FAILURES: Location None

Cause N/A

Method of Repair N/A

James C Landry
Name

Feb Forman
Title

Witness for Proco
(Contractor)

E. J. Alvares
Name

S. New Tech.
Title

Witness for SOUTHERN NATURAL GAS CO.

L. N. W.
SEP 11 1980

EVS
W/K

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SOUTHERN NATURAL GAS CO. NY
RE-PRESSURING SCHEDULE

Date 10-2-80
10-3-80

(1 qt. water = 1 lb press.) (GAL/STROKE)

6th M.P. Blk. 115 line M.P. 0.000 to M.P. 1.797

SECTION UNDER TEST 6" & 8" I.P. Blk. 114 to I.P. Blk. 127 line I.P. 0.000 to I.P. 0.114				
ELAPSED	PRESSURE	STROKES	GALLONS	
00:00	0.000	0	0.000	0.000
00:01	0.000	0	0.000	0.000
00:02	0.000	0	0.000	0.000
00:03	0.000	0	0.000	0.000
00:04	0.000	0	0.000	0.000
00:05	0.000	0	0.000	0.000
00:06	0.000	0	0.000	0.000
00:07	0.000	0	0.000	0.000
00:08	0.000	0	0.000	0.000
00:09	0.000	0	0.000	0.000
00:10	0.000	0	0.000	0.000
00:11	0.000	0	0.000	0.000
00:12	0.000	0	0.000	0.000
00:13	0.000	0	0.000	0.000
00:14	0.000	0	0.000	0.000
00:15	0.000	0	0.000	0.000
00:16	0.000	0	0.000	0.000
00:17	0.000	0	0.000	0.000
00:18	0.000	0	0.000	0.000
00:19	0.000	0	0.000	0.000
00:20	0.000	0	0.000	0.000
00:21	0.000	0	0.000	0.000
00:22	0.000	0	0.000	0.000
00:23	0.000	0	0.000	0.000
00:24	0.000	0	0.000	0.000
00:25	0.000	0	0.000	0.000
00:26	0.000	0	0.000	0.000
00:27	0.000	0	0.000	0.000
00:28	0.000	0	0.000	0.000
00:29	0.000	0	0.000	0.000
00:30	0.000	0	0.000	0.000
00:31	0.000	0	0.000	0.000
00:32	0.000	0	0.000	0.000
00:33	0.000	0	0.000	0.000
00:34	0.000	0	0.000	0.000
00:35	0.000	0	0.000	0.000
00:36	0.000	0	0.000	0.000
00:37	0.000	0	0.000	0.000
00:38	0.000	0	0.000	0.000
00:39	0.000	0	0.000	0.000
00:40	0.000	0	0.000	0.000
00:41	0.000	0	0.000	0.000
00:42	0.000	0	0.000	0.000
00:43	0.000	0	0.000	0.000
00:44	0.000	0	0.000	0.000
00:45	0.000	0	0.000	0.000
00:46	0.000	0	0.000	0.000
00:47	0.000	0	0.000	0.000
00:48	0.000	0	0.000	0.000
00:49	0.000	0	0.000	0.000
00:50	0.000	0	0.000	0.000
00:51	0.000	0	0.000	0.000
00:52	0.000	0	0.000	0.000
00:53	0.000	0	0.000	0.000
00:54	0.000	0	0.000	0.000
00:55	0.000	0	0.000	0.000
00:56	0.000	0	0.000	0.000
00:57	0.000	0	0.000	0.000
00:58	0.000	0	0.000	0.000
00:59	0.000	0	0.000	0.000
01:00	0.000	0	0.000	0.000
01:01	0.000	0	0.000	0.000
01:02	0.000	0	0.000	0.000
01:03	0.000	0	0.000	0.000
01:04	0.000	0	0.000	0.000
01:05	0.000	0	0.000	0.000
01:06	0.000	0	0.000	0.000
01:07	0.000	0	0.000	0.000
01:08	0.00			

[illegible]

PIPE FAILURE

Date _____ Time _____ Time Taken From
Start of Test _____

Location _____

Approx. Pressure at Point of Failure	psi
100	100
200	200
300	300
400	400
500	500
600	600
700	700
800	800
900	900
1000	1000
1100	1100
1200	1200
1300	1300
1400	1400
1500	1500
1600	1600
1700	1700
1800	1800
1900	1900
2000	2000
2100	2100
2200	2200
2300	2300
2400	2400
2500	2500
2600	2600
2700	2700
2800	2800
2900	2900
3000	3000
3100	3100
3200	3200
3300	3300
3400	3400
3500	3500
3600	3600
3700	3700
3800	3800
3900	3900
4000	4000
4100	4100
4200	4200
4300	4300
4400	4400
4500	4500
4600	4600
4700	4700
4800	4800
4900	4900
5000	5000
5100	5100
5200	5200
5300	5300
5400	5400
5500	5500
5600	5600
5700	5700
5800	5800
5900	5900
6000	6000
6100	6100
6200	6200
6300	6300
6400	6400
6500	6500
6600	6600
6700	6700
6800	6800
6900	6900
7000	7000
7100	7100
7200	7200
7300	7300
7400	7400
7500	7500
7600	7600
7700	7700
7800	7800
7900	7900
8000	8000
8100	8100
8200	8200
8300	8300
8400	8400
8500	8500
8600	8600
8700	8700
8800	8800
8900	8900
9000	9000
9100	9100
9200	9200
9300	9300
9400	9400
9500	9500
9600	9600
9700	9700
9800	9800
9900	9900
10000	10000

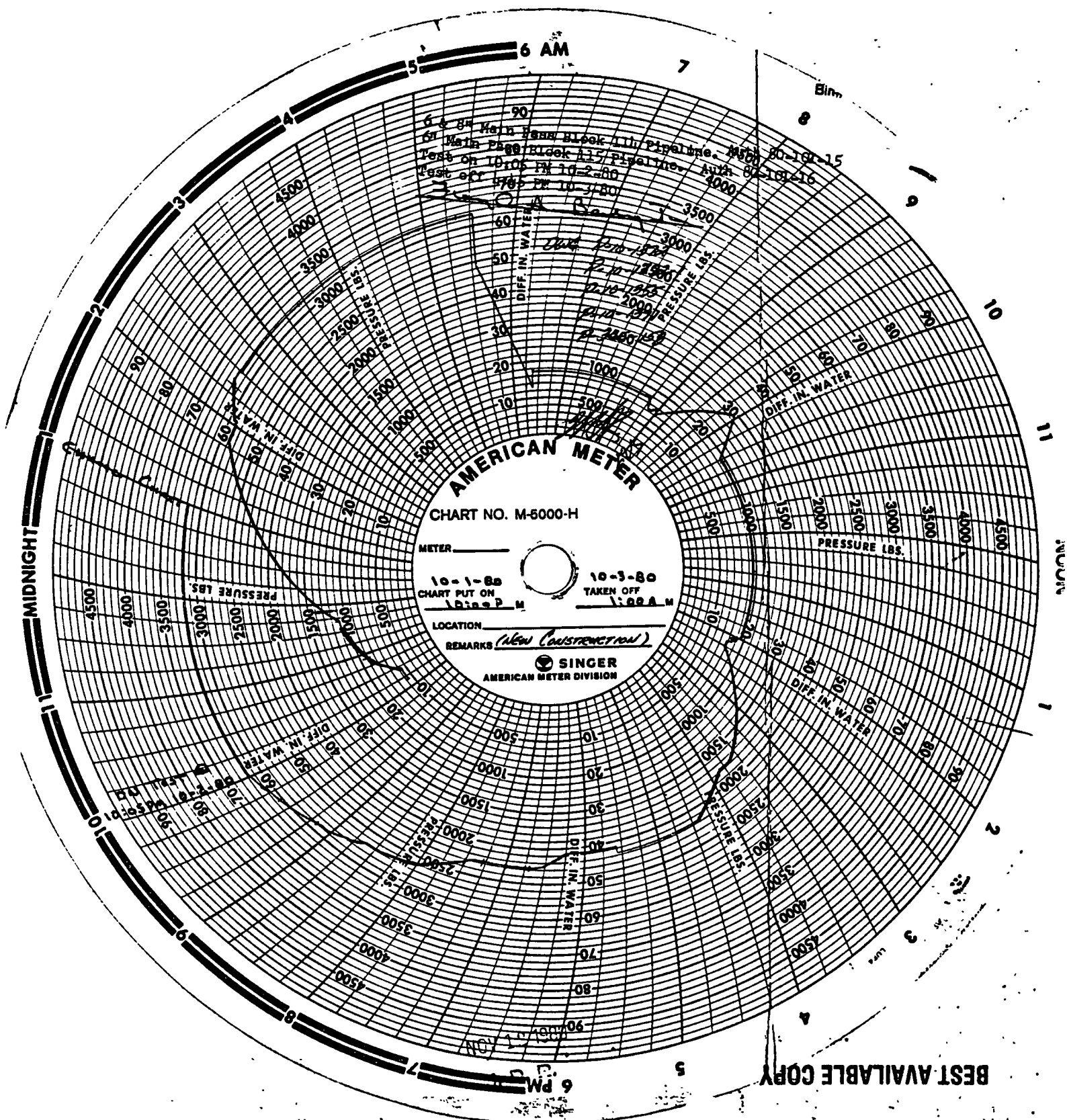
Description	Quantity	Unit	Value
...

Method of Repair

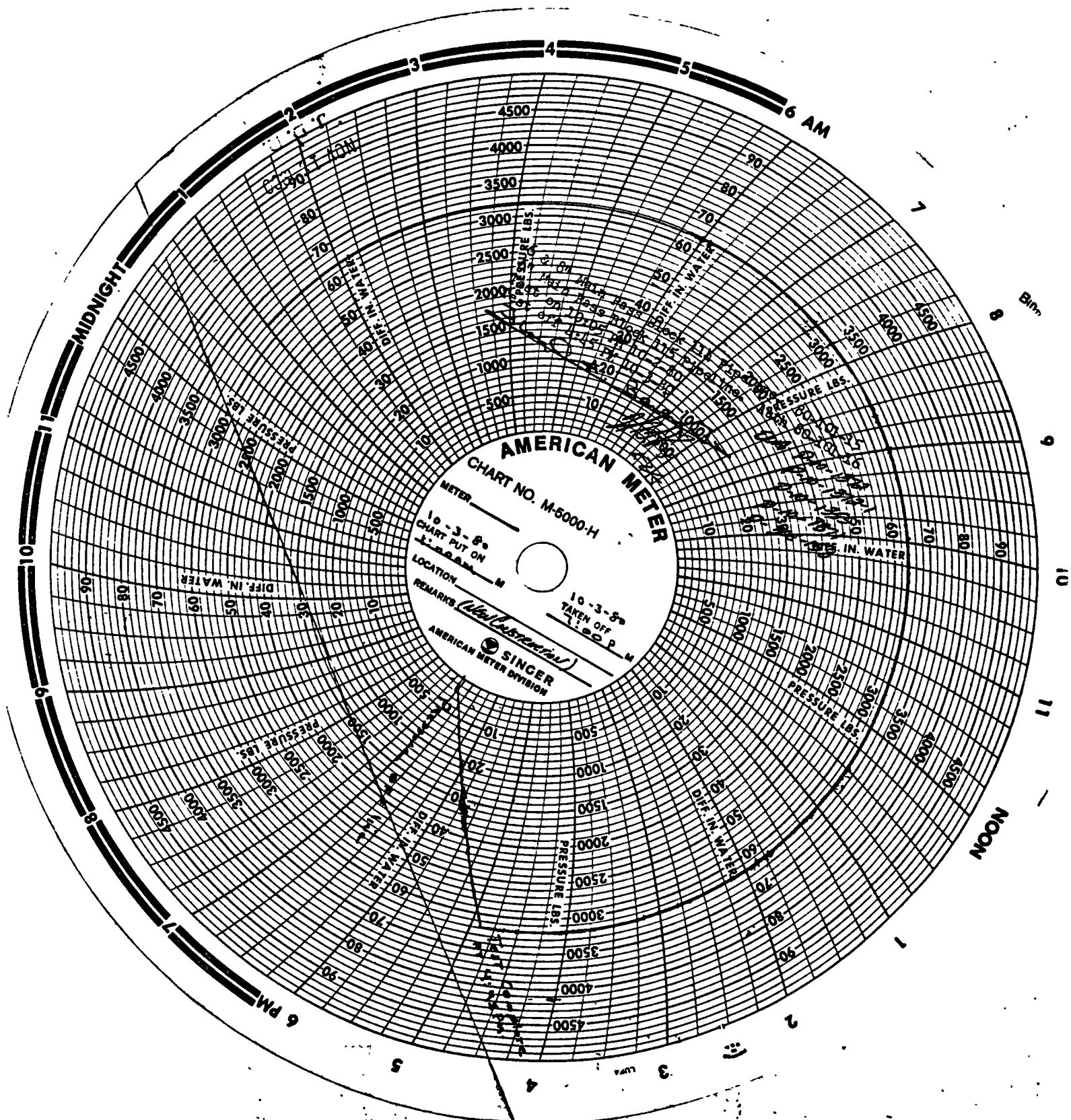
Remarks

2/25/84

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OCS-G4325

4326

4328

PIPELINE DESCRIPTION: 8-5/8" X 0.500" WT Main Pass 127-117

6-5/8" X 0.432" WT Main Pass 117-114 and 115-117

TESTING CONTRACTOR: Ingram Marine Constructors

CONSTRUCTION CONTRACTOR: Ingram Marine Constructors

SECTION TESTED FROM: See above TO: _____

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DATE	TIME	(PSIG) DEAD WT. PRESSURE	(°F) TEMPERATURE	REMARKS
10-2-80	10:05 PM	3210		Deadweight @ +12 Elev.
	10:15 PM	3208		
	10:30 PM	3207		
	10:45 PM	3206		
	11:00 PM	3205		
	11:15 PM	3204		
	11:30 PM	3203		
	11:45 PM	3203		
10-3-80	12:00 AM	3202		
	12:15 AM	3202		
	12:30 AM	3202		
	12:45 AM	3202		
	1:00 AM	3210		
	1:15 AM	3210		
	1:30 AM	3209		
	1:45 AM	3209		

COMPANY REPRESENTATIVE: Floyd A. Bailey, Jr. DATE October 3, 1980

TITLE: _____

CONTRACTOR REPRESENTATIVE: _____ DATE _____

TITLE: _____

PIPELINE DESCRIPTION: 8-5/8" X 0.500" WT Main Pass 127-117

6-5/8" X 0.432" WT Main Pass 117-114 and 115-117

TESTING CONTRACTOR: Ingram Marine Constructors

CONSTRUCTION CONTRACTOR: Ingram Marine Constructors

SECTION TESTED FROM: See above TO: _____

BEST AVAILABLE COPY

DATE	TIME	(PSIG) DEAD WT. PRESSURE	(°F) TEMPERATURE	REMARKS
10-3-80	2:00 AM	3208		
	2:15 AM	3207		
	2:30 AM	3207		
	2:45 AM	3206		
	3:00 AM	3206		
	3:15 AM	3205		
	3:30 AM	3205		
	3:45 AM	3205		
	4:00 AM	3204		
	4:15 AM	3204		
	4:30 AM	3204		
	4:45 AM	3203		
	5:00 AM	3203		
	5:15 AM	3203		
	5:30 AM	3202		
	5:45 AM	3202		

COMPANY REPRESENTATIVE: Floyd A. Bailey, Jr. DATE October 3, 1980

TITLE: _____

CONTRACTOR REPRESENTATIVE: _____ DATE _____

TITLE: _____

PIPELINE DESCRIPTION: 8-5/8" X 0.500 WT Main Pass 127-1176-5/8" X 0.432" WT Main Pass 117-114 and 115-117TESTING CONTRACTOR: Ingram Marine ConstructorsCONSTRUCTION CONTRACTOR: Ingram Marine ConstructorsSECTION TESTED FROM: See above TO: _____

BEST AVAILABLE COPY

DATE	TIME	(PSIG) DEAD WT. PRESSURE	(°F) TEMPERATURE	REMARKS
10-3-80	6:00 AM	3215		
	6:15 AM	3215		
	6:30 AM	3215		
	6:45 AM	3214		
	7:00 AM	3214		
	7:15 AM	3204		
	7:30 AM	3204		
	7:45 AM	3213		
	8:00 AM	3213		
	8:15 AM	3213		
	8:30 AM	3213		
	8:45 AM	3213		
	9:00 AM	3212		
	9:15 AM	3212		
	9:30 AM	3212		
	9:45 AM	3212		

COMPANY REPRESENTATIVE: Floyd A. Bailey, Jr. DATE October 13, 1980

TITLE: _____

CONTRACTOR REPRESENTATIVE: _____ DATE _____

TITLE: _____

PIPELINE DESCRIPTION: 8-5/8" X 0.500" WT Main Pass 127-117
6-5/8" X 0.432" WT Main Pass 115-117

TESTING CONTRACTOR: Ingram Marine Constructors

CONSTRUCTION CONTRACTOR: Ingram Marine Constructors

SECTION TESTED FROM: See above TO: _____

BEST AVAILABLE COPY

DATE	TIME	(PSIG) DEAD WT. PRESSURE	(°F) TEMPERATURE	REMARKS
10-3-80	10:00 AM	3211		
	10:15 AM	3211		
	10:30 AM	3211		
	10:45 AM	3210		
	11:00 AM	3210		
	11:15 AM	3210		
	11:30 AM	3210		
	11:45 AM	3210		
	12:00 PM	3210		
	12:15 PM	3209		
	12:30 PM	3209		
	12:45 PM	3209		Repressured at 12:48 AM 3201 to 3210
	1:00 PM	3209		
	1:15 PM	3208		
	1:30 PM	3208		
	1:45 PM	3208		

COMPANY REPRESENTATIVE: Floyd A. Bailey, Jr. DATE October 3, 1980

TITLE: _____

CONTRACTOR REPRESENTATIVE: _____ DATE _____

TITLE: _____

PIPELINE DESCRIPTION: 8-5/8" X 0.500" WT Main Pass 127-117
6-5/8" X 0.432" WT Main Pass 115-117

TESTING CONTRACTOR: Ingram Marine Constructors

CONSTRUCTION CONTRACTOR: Ingram Marine Constructors

SECTION TESTED FROM: See above TO: _____

BEST AVAILABLE COPY

DATE	TIME	(PSIG) DEAD WT. PRESSURE	(°F) TEMPERATURE	REMARKS
10-3-80	2:00 PM	3207		
	2:15 PM	3207		
	2:30 PM	3207		
	2:45 PM	3206		
	3:00 PM	3206		
	3:15 PM	3206		
	3:30 PM	3206		
	3:45 PM	3206		
	4:00 PM	3206		
	4:15 PM	3206		
	4:30 PM	3206		
	4:45 PM	3206		Repressured at 5:50 AM 3202 to 3215
	5:00 PM			
	5:15 PM			
	5:30 PM			
	5:45 PM			

COMPANY REPRESENTATIVE: Floyd A. Bailey, Jr. DATE October 3, 1980

TITLE: _____

CONTRACTOR REPRESENTATIVE: _____ DATE _____

TITLE: _____

**SOUTHERN NATURAL GAS (ANY
HYDROSTATIC TEST RECORD**

Sheet 1 of 1
Date 7-29-80

TEST DATA SHEETS

SECTION UNDER TEST Taps for Shamrock Blk. 114, Blk. 116, and Future Tap

TIME	PRESSURE				TEMP. #	REMARKS
	#1	#2	#3	#4		
:45						Auth: 80-101-15 DWG: P-10-1355
8:00						80-101-16 P-10-1356
:15						80-101-17 P-10-1361
:30						
:45						
9:00						
:15						
:30						
:45						Water Fill Temp. 80°
10:00						
:15	3245				87	On test at 10:15 P:M
:30	3242				88	Bleed off 8 psi at 10:30 P:M to 3242 psi.
:45	3250				87	Bleed off 7 psi at 10:45 P:M to 3243 psi.
11:00	3247				85	
:15	3247				90	Bleed off 8 psi at 11:20 P:M to 3242 psi.
:30	3250				88	
:45	3250					Bleed off 7 psi at 11:30 P:M to 3243 psi.
12:00	3250				89	Bleed off 8 psi at 11:45 P:M to 3242 psi.
:15	3247				87	Bleed off 7 psi at 12:00 A:M to 3243 psi.
:30	3243				90	
:45	3250				89	Bleed off 7 psi at 12:33 A:M to 3243 psi.
1:00	3250				91	
:15	3248				89	Bleed off 8 psi at 1:00 A:M to 3242 psi.
:30	3247				92	
:45	3248				89	Bleed off 8 psi at 1:33 A:M to 3242 psi.
2:00	3249				91	
:15	3249				91	Bleed off 5 psi at 2:12 A:M to 3245 psi.
:30						Test complete at 2:15 A:M
:45						
3:00						
:15						
:30						
:45						
4:00						
:15						
:30						
:45						
5:00						
:15						
:30						
:45						
6:00						
:15						
:30						
:45						
7:00						
:15						
:30						

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Location #1 DWT #1882 SNG L. N. W.
#2 SEP 11 1980
#3
#4

TIME	PRESSURE				TEMP. #	REMARKS
	#1	#2	#3	#4		
:45						Dead weight at +12 ELV.
8:00						
:15						
:30						
:45						
9:00						
:15						
:30						
:45						
10:00	3210					10-2-80
:15	3208					
:30 PM	3207					
:45	3206					
11:00	3205					
:15	3204					
:30 PM	3203					
:45	3202					
12:00	3202					10-2-80
:15	3202					
:30 AM	3202					
:45	3202					
1:00	3201					
:15	3201					
:30 AM	3200					
:45	3200					
2:00	3200					
:15	3200					
:30 AM	3200					
:45	3200					
3:00	3200					
:15	3200					
:30 AM	3200					
:45	3200					
4:00	3200					
:15	3200					
:30 AM	3200					
:45	3200					
5:00	3200					
:15	3200					
:30 AM	3200					
:45	3200					
6:00	3200					
:15	3200					
:30 AM	3200					
:45	3200					
7:00	3200					
:15	3200					
:30 AM	3200					

BEST AVAILABLE COPY

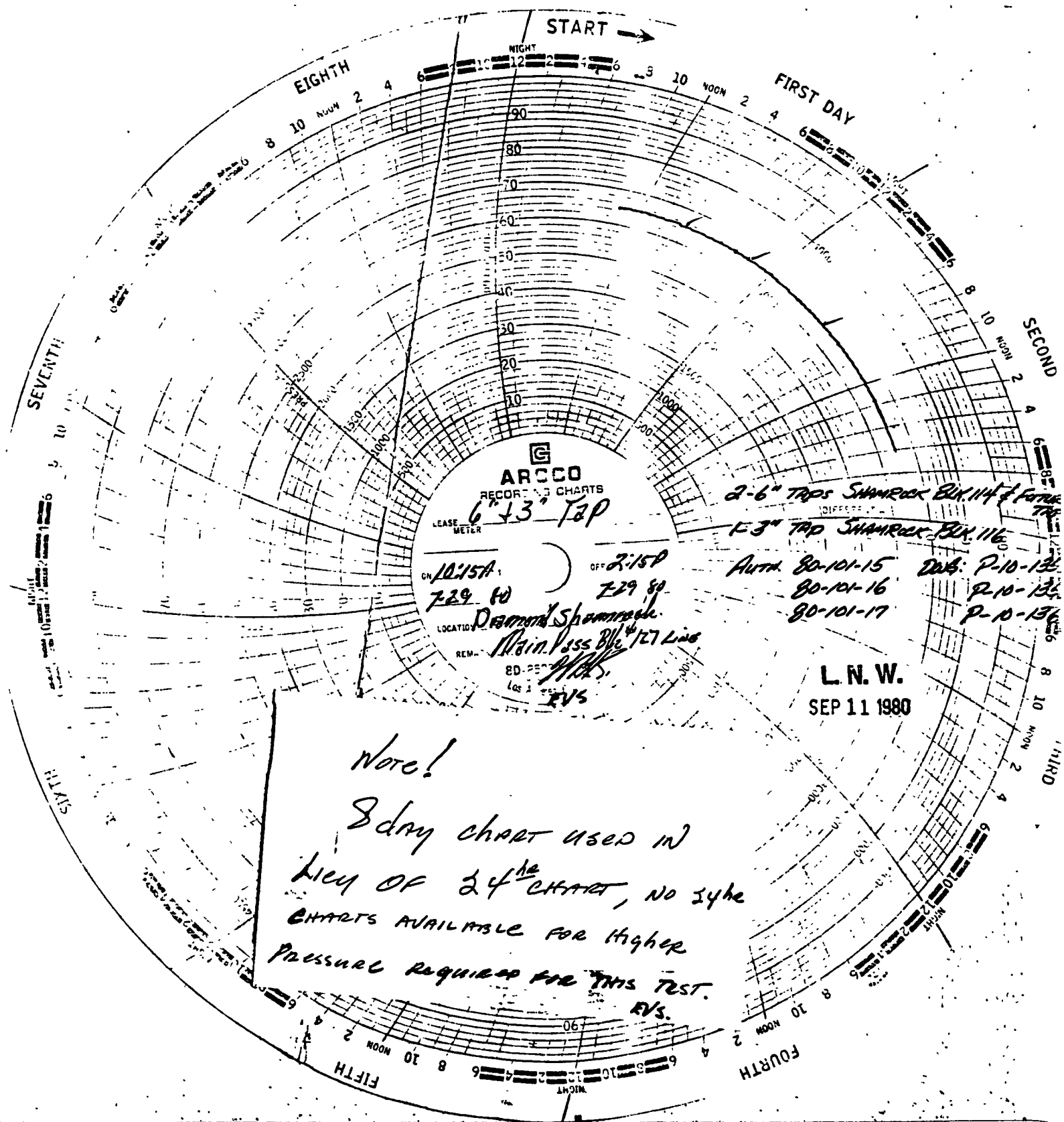
Location #1
#2
#3

TIME	#1	#2	#3	#4	TEMP.	REMARKS
7:45	3112					DOWNSTAY AT +12 ELV.
8:00	3212					
:15	3112					
:30	3112					
:45	3112					
9:00	3112					
:15	3212					
:30	3212					
:45	3112					
10:00	3211					
:15	3211					
:30	3211					
:45	3110					
11:00	3210					
:15	3210					
:30	3210					
:45	3210					
12:00	3210					
:15	3209					
:30	3209					
:45	3209					AT 1248 AT 3211 3210
1:00	3209					
:15	3209					
:30	3209					
:45	3209					
2:00	3209					
:15	3209					
:30	3209					
:45	3206					
3:00	3206					
:15	3206					
:30	3206					
:45	3206					
4:00	3206					
:15	3206					
:30	3206					
:45	3206					AT 4000 AT 3202 3201
5:00						
:15						
:30						
:45						
6:00						
:15						
:30						
:45						
7:00						
:15						
:30						

BEST AVAILABLE COPY

Location #1 _____
#2 _____

BEST AVAILABLE COPY



MILBAR HYDRO-TEST. C.

OCS-G 4325, 26, 28

+4329

FIELD PRESSURE & TEST REPORT

OCS-G 4326

Page

of

BEST AVAILABLE COPY

Contractor or Company:

"PROCO" OFFSHORE PRODUCTION CONTRACTOR

Pipe Line Description:

3-RISERS - 8" - 6" - 3"

Section Tested: From:

PROCO'S YARD SAME

Test Section No.:

PRE-FAB RISERS

Length:

ABOUT 160 FEET

Type and Size of Pipe:

8"-6"-3"

() D \

WT \ Grade

Manufacturer:

Pressure Unit No.:

PORT AIR PUMP

Strokes per Stroke

Full Unit No.

SAME

Pressure Unit Location:

PROCO'S YARD

Water Source

PROCO'S WATER SOURCE

Time and Date Test Started:

3:30 PM 8-12-80

Test Pressure (Maximum):

1860 MAX - 1850 MIN

Time and Date Test Ended:

7:35 AM 8-12-80

Pressure Volume Plot Yes

No

Section Accepted

☒

Section Leaking

Section Ruptured

DEADWEIGHT RECORDED READING (PSIG)

TIME	PRESSURE	TEMP	TIME	PRESSURE	TEMP	TIME	PRESSURE	TEMP
Date: 8-12-80		DEG. F			DEG. F			DEG. F

3:30 PM	1855	94°	5:30 PM	1856	90°	7:00 PM	(1851)(1859)	86°
*3:40	(1851)(1851)	94°	X5:43	(1851)(1858)	90°	X6:56	(1851)(1859)	86°
*3:46	(1851)(1851)	94°	5:45	1858	90°	7:00	1858	86°
*3:53	(1851)(1851)	94°	X5:57	(1851)(1859)	90°	7:15	1855	85°
*3:58	(1851)(1851)	93°	6:00	1859	89°	7:30	1851	86°
4:00	1851	93°	X6:07	(1851)(1859)	89°	7:35	OFF TEST	85°
4:15	1856	93°	6:15	1853	88°			
4:30	1854	93°	X6:17	(1851)(1859)	88°			
*4:40	(1851)(1851)	93°	X6:22	(1851)(1859)	88°			
4:45	1853	93°	X6:27	(1851)(1859)	88°			
5:00	1858	92°	X6:30	(1851)(1859)	87°			
*5:05	(1851)(1851)	92°	X6:35	(1851)(1859)	87°			
5:15	1853	91°	X6:40	(1851)(1859)	87°			
X5:25	(1851)(1857)	90°	6:45	1859	86°			

Strokes per 10 psi

Remarks:

Started up on test - Union Leaking
Temporary Hook Up Bleed Down - Reconnected after Repair
on test at 3:30 - 1855 PSI. After at 7:35. No Visible
Leakers. Cloudy in Sight Breeze of Water.

Milbar Supr

Dale Yocham

Inspector

Witness: 1.

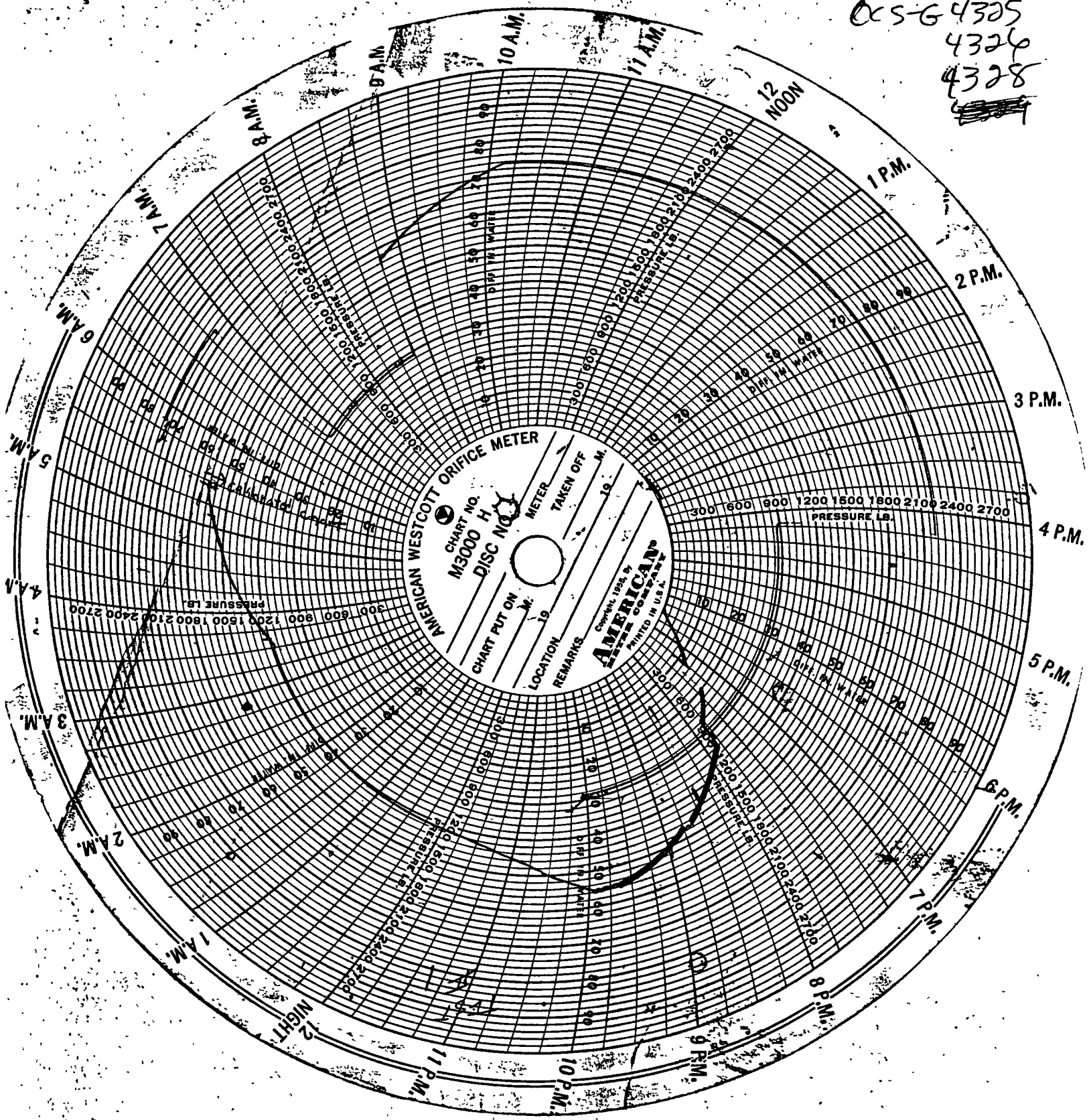
Dale Yocham2. Teddy J. Corrao

Gauges and Recorders Last Tested

Deadweight Serial No.

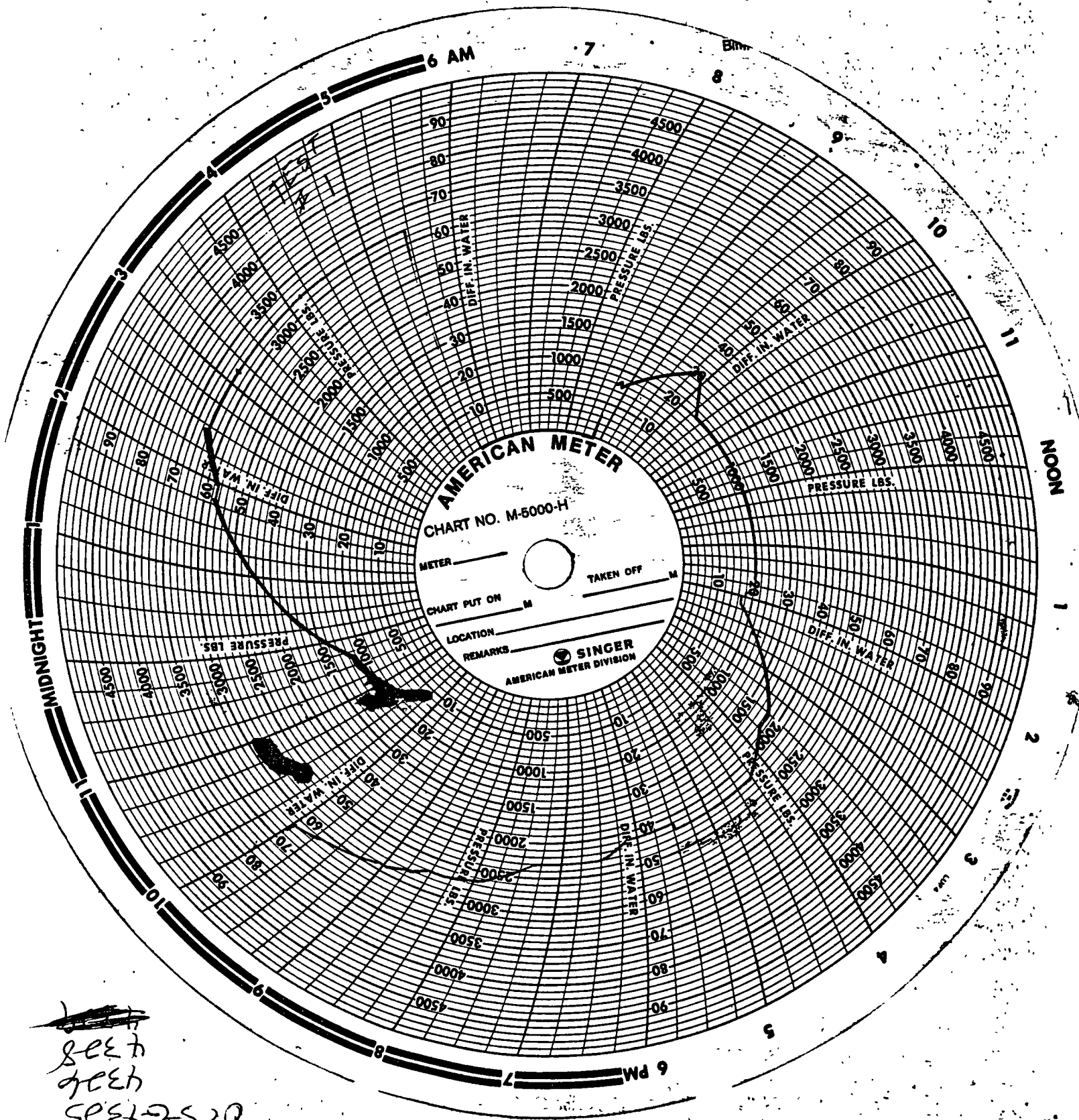
1882

005-G 4325
4326
4328
~~4329~~



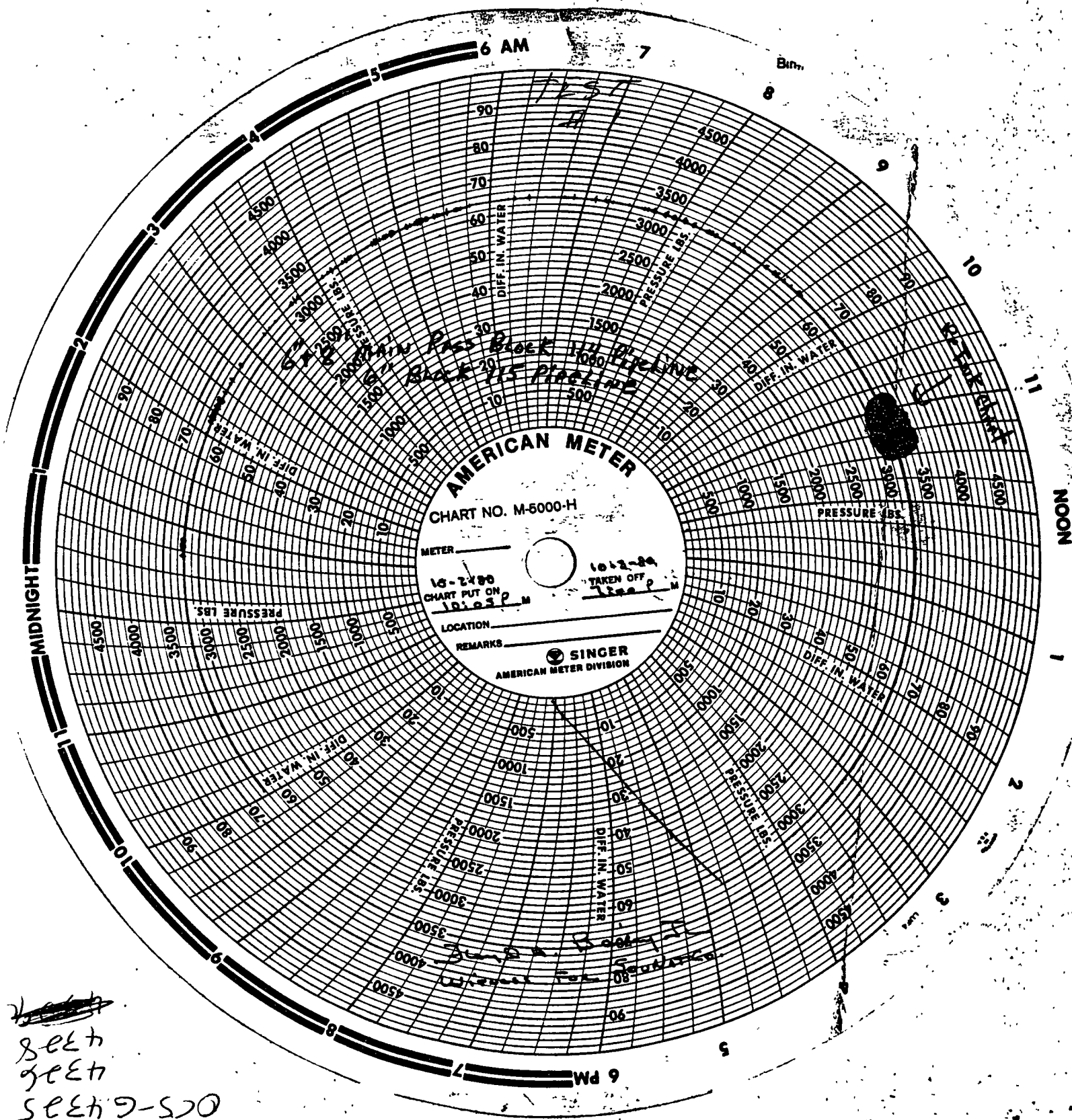
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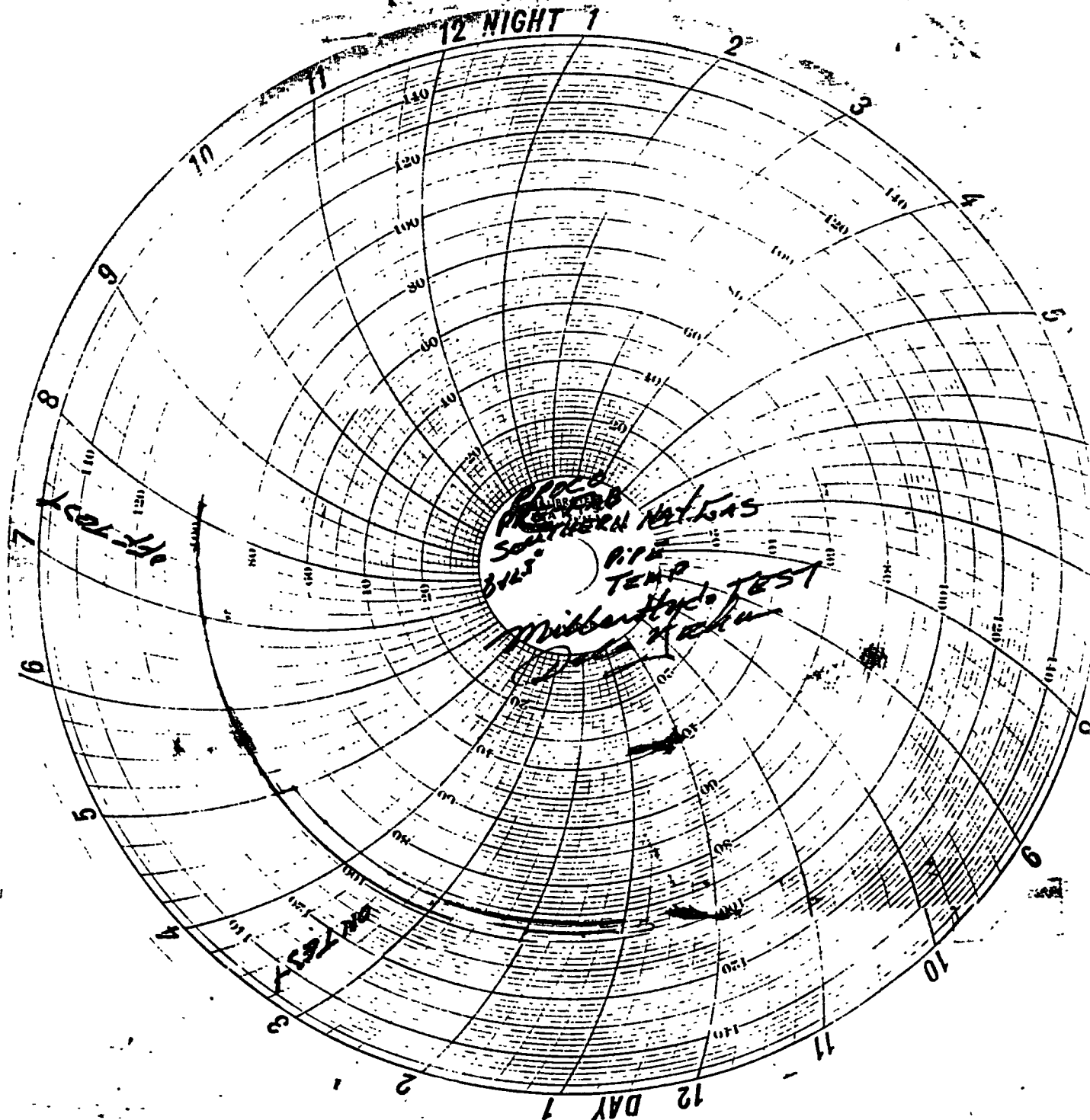
SEE 4325
4326
4327
OCS-4325

BEST AVAILABLE COPY



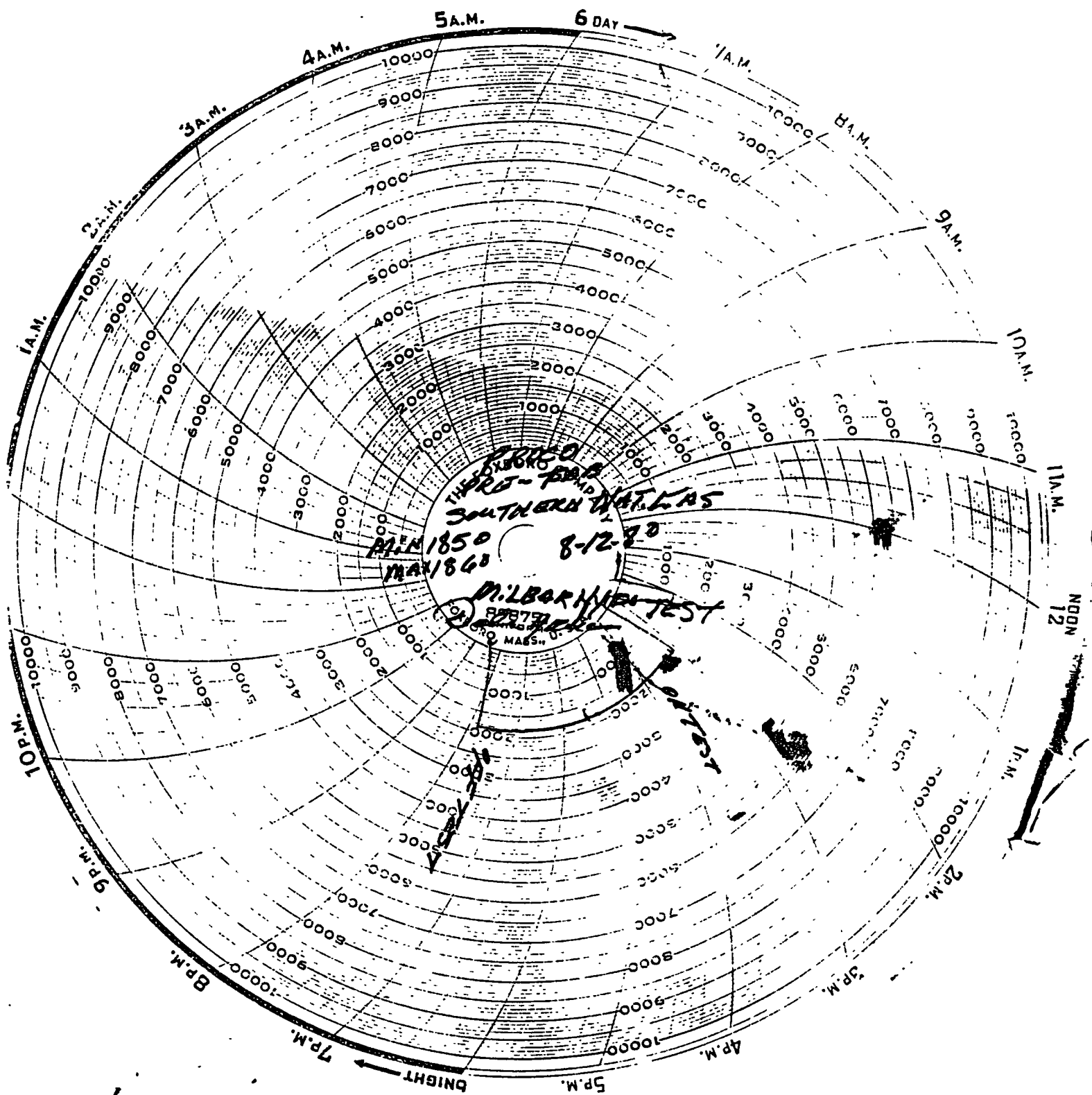
OCS-G 4325
4326
4328
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015-4325
4326
4327
4329

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Shuble D. Tenney Jr.
Registered Land Surveyor No. 4335
State of Louisiana
John E. Chance & Associates, Inc.



AS BUILT PIPE LINES IN
BLOCKS 114, 115, 116, 117 & 127
MAIN PASS AREA

DATE 10/8/80	APPROVED	SHEET
SCALE 1" = 1000'		2 OF 2
DRAWN BY J.E.C. & S.G.	OPR <i>[Signature]</i>	DIVISION
CHECKED <i>[Signature]</i>	ENG <i>[Signature]</i>	

DWG. NO. A P - 30E - 158

BEST AVAILABLE COPY

NO.	DATE	DESCRIPTION	BY	CH'KD.	APPY'D.
REVISED					

BEST AVAILABLE COPY

Britton 9/11/87
Howard 9/14/87
Stauffer 9/14/87

In Reply Refer To: FO-2-2
OCS-G 4326

SEP. 14 1987

Southern Natural Gas Company
Attention: Mr. Donald Wallis
Post Office Box 2563
Birmingham, Alabama 35202

Gentlemen:

Reference is made to your pipeline right-of-way grant in the above numbered case.

Our records indicate that proof of construction for your proposed 6 5/8-inch natural gas pipeline, from Platform No. 1 in Block 115, to an 8 5/8-inch subsea connection in Block 117, all located in Main Pass Area, has not been submitted to this office.

Five years since the issuance of the grant have now elapsed.

Unless you submit within 30 days from the receipt of this letter proof of construction of the pipeline issued under this grant, the grant will be deemed to have been abandoned and deemed to be a forfeiture, pursuant to the Department of the Interior Regulation 30 CFR 256.95(a).

Direct any questions to Autry Britton at (504) 736-2548.

Sincerely yours.

/s/ Chris Oynes

J. Rogers Pearcy
Regional Director

Certified Mail No. P273824037

bcc: P/L OCS-G 4326 (FO-2-2)
K. Faust (FO-2-2)
ORD Reading File

ABritton:jj:9/8/87:Disk 6

BEST AVAILABLE COPY

In Reply Refer To: RP-2-2

APR 16 1986

Southern Natural Gas Company
Attention: Mr. Donald E. Wallis
Post Office Box 2563
Birmingham, Alabama 35202

Gentlemen:

Please furnish proof of construction in accordance with 30 CFR 256.95 on the following pipeline rights-of-way:

<u>OCS-G Number</u>	<u>Date of Permit</u>
4153	9/20/79
4849	11/16/81
5129	7/09/82
4607	7/31/81
4338	2/26/81
5144	3/24/83
8051	9/23/85
7117	9/25/84
4328	7/10/80
4326	7/10/80
4329	7/10/80
4325	7/10/80
4327	7/10/80
8052	8/15/85
7094	8/03/84
7111	9/11/84
4364	10/20/80
4365	10/28/80
5934	12/01/83
4980	5/25/82
4624	7/20/81

(Orig. Sgd.) A. Donald Giroir

Acting Regional Supervisor
Rules and Production

Enclosure

bcc: SEQ-1b (RP-2-2)

CWilliams:jj:4/14/86:PC Disk 2



SN5821

IN REPLY REFER TO

United States Department of the Interior

OCS-G 4326

BUREAU OF LAND MANAGEMENT

NEW ORLEANS OUTER CONTINENTAL SHELF OFFICE
HALE BOGGS FEDERAL BUILDING
500 CAMP STREET-SUITE 641
NEW ORLEANS, LA. 70130

Main Pass Area

July 10, 1980


Southern Natural Gas Company

Right-of-Way

ACTION: APPLICATION APPROVED

Your application for a right-of-way 200 feet in width for the construction, maintenance, and operation of a 6.625-inch natural gas pipeline, 1.80 miles in length, from Diamond Shamrock Corporation's Caisson No.1 in Block 115, across Block 116, to a subsea tie-in with Southern Natural Gas Company's proposed 8.625-inch pipeline (OCS-G 4325) in Block 117, all of which are located in Main Pass Area, dated April 24, 1980, and amendments thereto dated May 5, 1980, and May 22, 1980, with their attachments is hereby approved with the following additions and corrections:

1. Avoid by 150 meters the unidentified magnetic anomalies on Line 13, Shot Point 15.6, and Line 15, Shot Point 9.1, when positioning lay barge anchors.
2. The ANSI 900 valves should not be subjected to a test-pressure differential greater than 2,160 psig.
3. The ANSI 900 valves, flanges, and fittings should not be subjected to a body test greater than 3,250 psig.


John L. Rankin
Manager

cc:
✓ Geological Survey, USDI
Office of Pipeline Safety Operations, USDT

JUL 15 1980

NOTED - NEWCEM



United States Department of the Interior

GEOLOGICAL SURVEY

IMPERIAL OFFICE BLDG., 3301 N CAUSEWAY BLVD

TEL (504) 837-4720

NEW ORLEANS OCS
METairie, LOUISIANA 70010
P.O. BOX 7844
FILE CODE

In Reply Refer To: OS-5

ROUTE INITIAL
MGR. _____
ASST. MGR. _____
JUN 13 1980
P. LEGAL _____
PAO _____
PAD _____
OPS _____
STUDIES _____
MGMT. SER. _____

JUN 12 1980

RECEIVED
JUN 13 10 16 AM '80
BUREAU OF LAND MANAGEMENT
OUTSTANDING
SPECIAL
NE
CITA

Memorandum

To: Manager, Bureau of Land Management, 841 Hale Boggs Federal Building,
500 Camp Street, New Orleans, Louisiana 70130

From: Conservation Manager, Gulf of Mexico OCS Region

Subject: Southern Natural Gas Company's Pipeline Right-of-Way Application,
BLM OCS-G 4326

We have reviewed the safety features and design specifications for the subject Right-of-Way Application, dated April 24, May 5 and 22, 1980, in accordance with the MOU dated August 1, 1974. It is for the construction, maintenance, and operation of a 6 5/8-inch natural gas pipeline 9,491 feet in length from Diamond Shamrock's Caisson No. 1 in Main Pass Block 115, Lease OCS-G 2948 to a subsea tie-in with Southern Natural Gas Company's proposed 8 5/8-inch pipeline located in Main Pass Block 117.

Based upon information submitted in the application, the design characteristics of this pipeline are calculated to be as follows:

<u>Pipeline Component</u>	<u>Maximum Allowable Operating Pressure/WP. Ratings</u>
Submerged component	3,944 psig
Riser component	3,286 psig
Valves, flanges, fittings	2,160 psig

The hydrostatic pressure test with water will be at 3,240 for eight hours. The ANSI 900 valves should not be subjected to a test-pressure differential greater than 2,160 psig. The ANSI 900 valves, flanges, and fittings should not be subjected to a body test greater than 3,250 psig.

Based on these calculations and a maximum allowable operating pressure (MAOP) of 2,160 psig of the receiving 8 5/8-inch Southern Natural Gas Company pipeline (BLM OCS-G 4325), we recommend that the MAOP for this pipeline be 2,160 psig, and that this pressure may be exceeded only when hydrostatically pressure-testing the pipeline. We also recommend that valves and taps at the proposed subsea tie-in be provided with a minimum of three feet of cover, either through burial or with sandbags.

The technical aspects of the proposed pipeline are acceptable in accordance with appropriate regulations and standards.

We would appreciate receiving a copy of the plat showing the location of the pipeline as installed.

for J. Courtney Reed
Lowell G. Hammons

RECEIVED
JUN 13 10 16 AM '80
BURGESS, J. HENT,
OUTER, J. HENT,
SOUTHERN,
OFFICE
NEW YORK, N.Y.



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

NEW ORLEANS OUTER CONTINENTAL SHELF OFFICE

HALE BOGGS FEDERAL BUILDING

500 CAMP STREET-SUITE 841

NEW ORLEANS, LA. 70130

IN REPLY REFER TO

OCS-G 4326

May 28, 1980

Memorandum

To: Conservation Manager
Gulf of Mexico OCS Operations

From: Manager
New Orleans OCS Office

Subject: Additional Information on Pipeline Right-of-Way Application
(OCS-G 4326)

Enclosed is additional information which you may use to further evaluate the subject application.

If you have any questions regarding this matter, please contact Mr. Autry J. Britton of this office.

Enclosure

- 1-Letter dated May 22, 1980
- 2-Drawing No. BLM-5-5, Sheet 6 of 6,
Revision 2 dated May 16, 1980

SOUTHERN NATURAL GAS COMPANY

POST OFFICE BOX 2563

BIRMINGHAM, ALABAMA 35202

May 22, 1980

New Orleans OCS Office
Bureau of Land Management
Hale Boggs Federal Building
Suite 841
500 Camp Street
New Orleans, Louisiana 70130

SUBJECT: OCS-G 4326 - P/L R/W
APPLICATION FOR RIGHT-OF-WAY ACROSS OUTER CONTINENTAL
SHELF BY SOUTHERN NATURAL GAS COMPANY FOR A PROPOSED
6.625-INCH O.D. NATURAL GAS PIPELINE IN AND/OR THROUGH
BLOCKS 115, 116 AND 117 OF THE MAIN PASS AREA, OFFSHORE,
LOUISIANA, FEDERAL WATERS (SNGCO.'S REF.: LINE NO. 2 - DIAMOND
SHAMROCK MAIN PASS PROJECT)

Gentlemen:

Reference is made to the telephone conversation between your Mr. Autrey Britton and our Messrs. Donald E. Wallis and David M. Young during which the discrepancies and/or lack of information regarding the high and low sensors on our Drawing No. BLM-5-5 was discussed.


Accordingly, please accept this resubmittal letter, in triplicate, and this drawing (three copies), which has been revised, for inclusion in the processing of our subject application. As in our original application, we have highlighted in yellow the information, etc., on this drawing which pertains to the subject pipeline application.

We greatly appreciate the cooperation shown in this matter and the expeditious handling of all applications.

Inquiries concerning this application should be directed to Mr. Donald E. Wallis, Assistant Encroachments Coordinator, Southern Natural Gas Company, Post Office Box 2563, Birmingham, Alabama 35202, Telephone: 205/325-7406.

Yours very truly,

SOUTHERN NATURAL GAS COMPANY

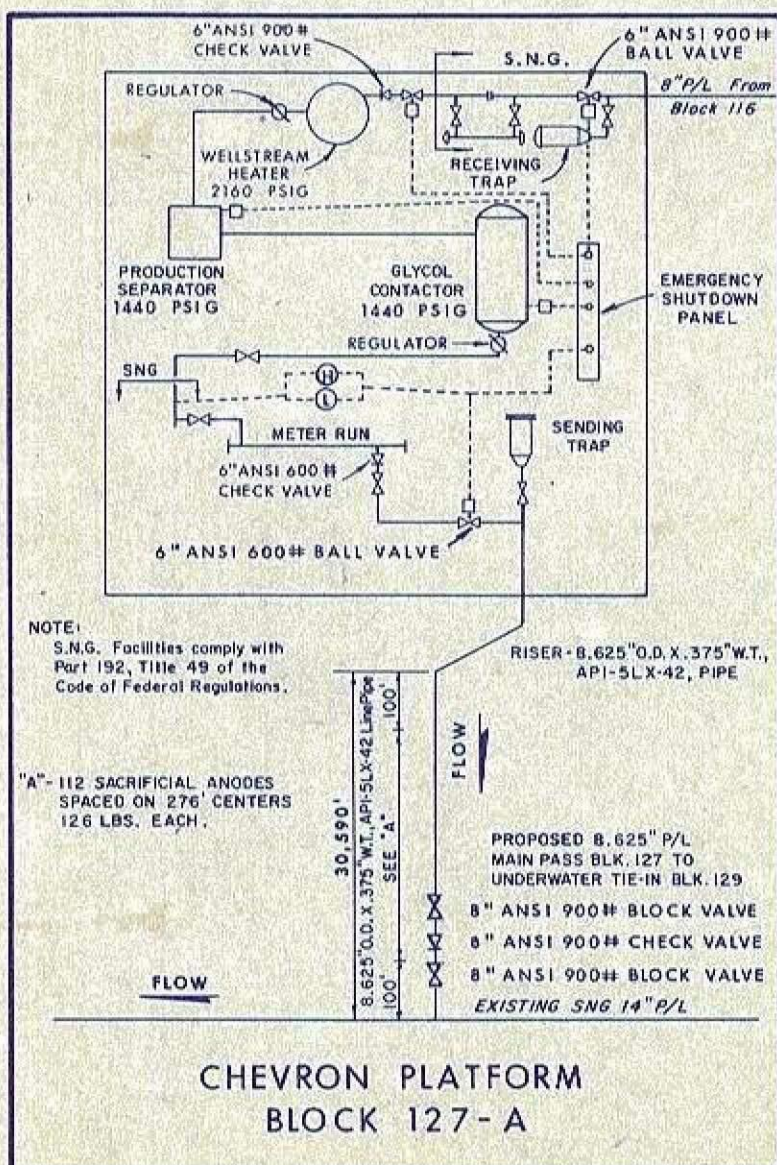
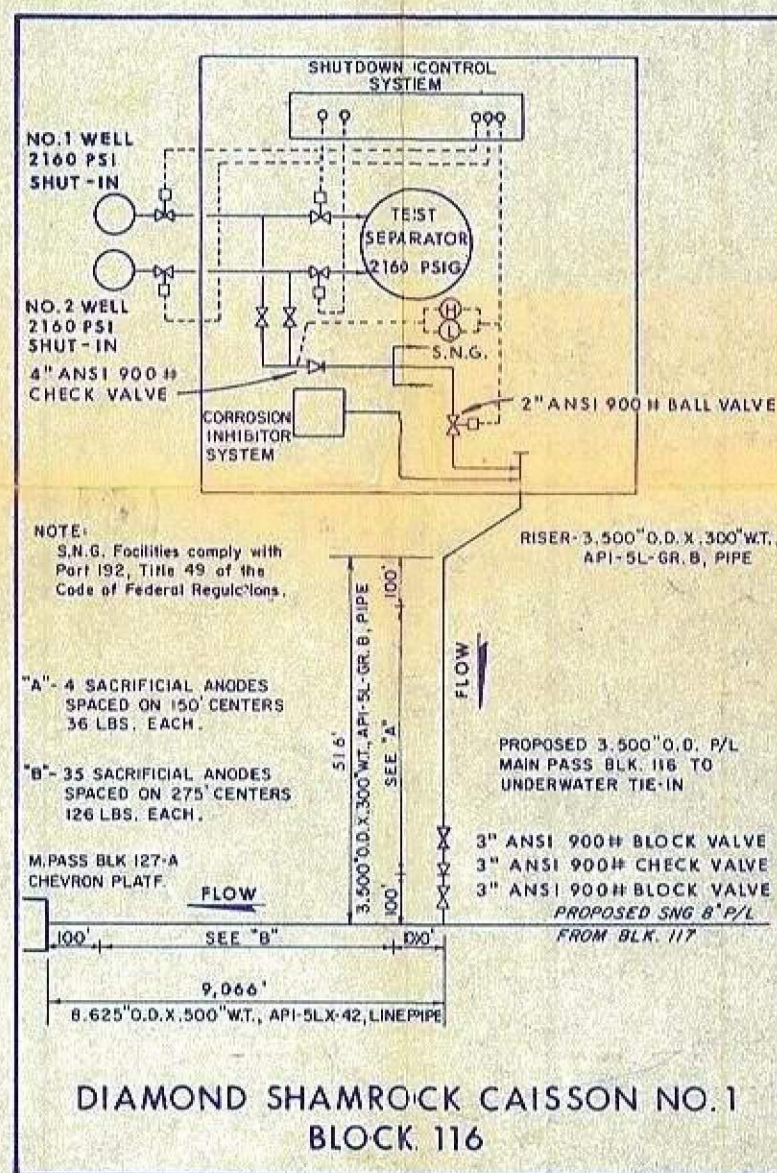
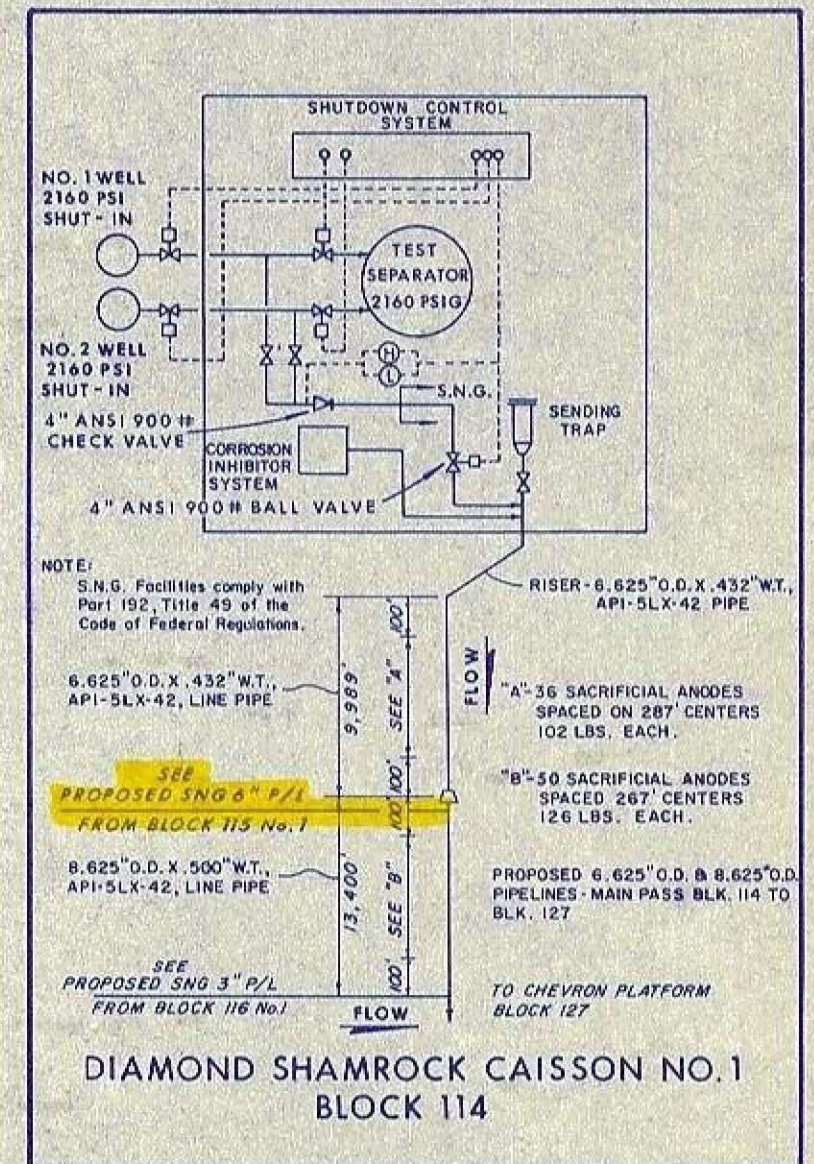
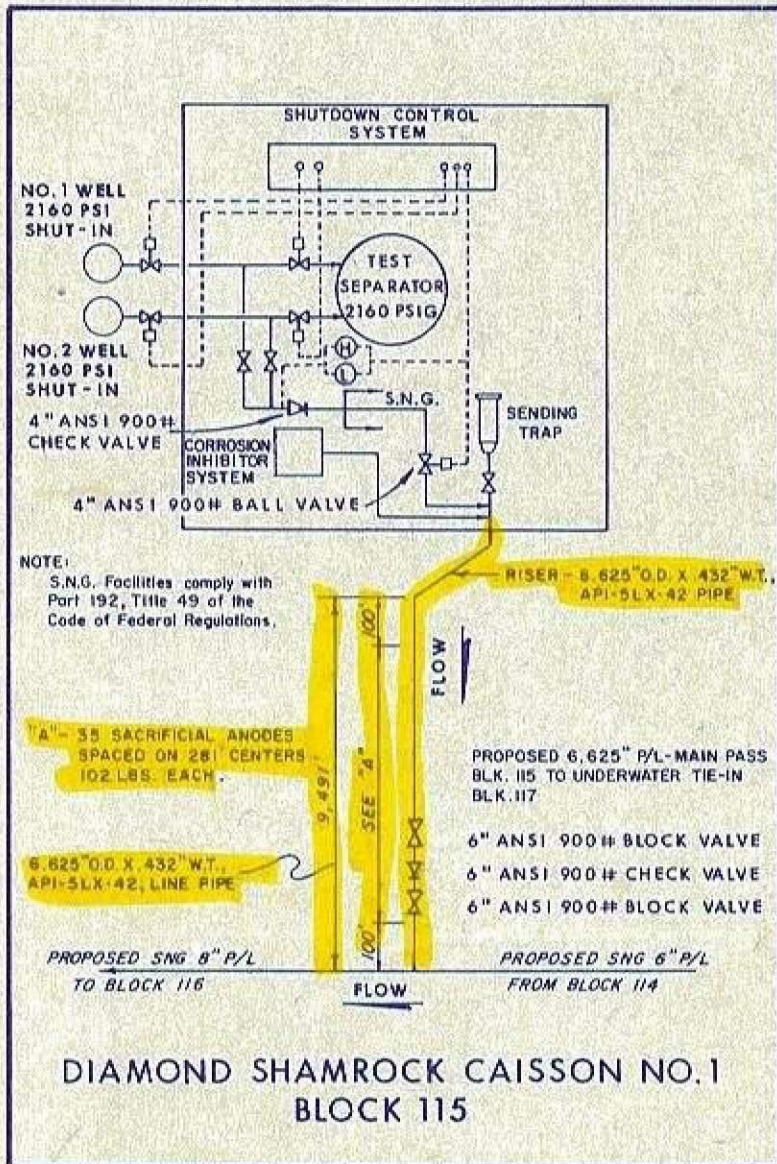

J. W. Bledsoe
Vice President

RECEIVED
MAY 27 1 40 PM '80
BUREAU OF LAND MANAGEMENT
OUTER CONTINENTAL SHELF
NEW ORLEANS, LA

JWB/DEW: jsb

Enclosures

(CERTIFIED MAIL NO. P14 6077013)



APPLICATION BY
SOUTHERN NATURAL GAS CO.
BIRMINGHAM, ALABAMA

REV. 2, 5/16/80, ADDED HIGH & LOW SENSORS, B.F.W.
REV. 1, 5/5/80, REVISED CHEVRON PLATFORM BLOCK 127-A,
M.J.M., H.A.D.,

REVISED

PROPOSED NATURAL
GAS PIPELINES
MAIN PASS AREA
GULF OF MEXICO

SHEET 6 OF 6 DATE: 1/18/80
DWG. NO. BLM-5-5



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

NEW ORLEANS OUTER CONTINENTAL SHELF OFFICE

HALE BOGGS FEDERAL BUILDING

500 CAMP STREET-SUITE 841

NEW ORLEANS, LA 70130

IN REPLY REFER TO

OCS-G 4326

May 19, 1980

Memorandum

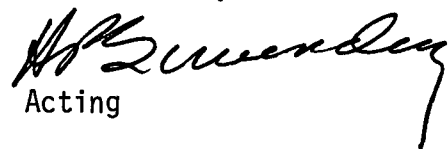
To: Conservation Manager
Gulf of Mexico OCS Operations

From: Manager
New Orleans OCS Office

Subject: Additional Information on Pipeline Right-of-Way Application
(OCS-G 4326)

Enclosed is additional information which you may use to further evaluate the subject application.

If you have any questions regarding this matter, please contact Mr. Autry J. Britton of this office.


Acting

Enclosure

- 1-Letter dated May 5, 1980
- 2-Drawing No. BLM-5-4, Sheet 5 of 6,
Revision 1 dated May 8, 1980

MAY 21 1980

NOTED - LANZA

BEST AVAILABLE COPY

SOUTHERN NATURAL GAS COMPANY

POST OFFICE BOX 2563

BIRMINGHAM, ALABAMA 35202

May 5, 1980

RECEIVED
MAY 14 1 31 PM '80
BUR OF LAND MGMT.
OUTER CONTINENTAL
SHELF OFFICE
NEW ORLEANS, LA

New Orleans OCS Office
Bureau of Land Management
Hale Boggs Federal Building
Suite 841
500 Camp Street
New Orleans, Louisiana 70130

SUBJECT: OCS-G 4326 - P/L R/W
APPLICATION FOR RIGHT-OF-WAY ACROSS OUTER CONTINENTAL
SHELF BY SOUTHERN NATURAL GAS COMPANY FOR A PROPOSED
6.625-INCH O.D. NATURAL GAS PIPELINE IN AND/OR THROUGH
BLOCKS 115, 116 AND 117 OF THE MAIN PASS AREA, OFFSHORE,
LOUISIANA, FEDERAL WATERS (SNGCO.'S REF.: LINE NO. 2 - DIAMOND
SHAMROCK MAIN PASS PROJECT)

Gentlemen:

Reference is made to the telephone conversation between your Mr. Autrey Britton and our Messrs. Donald E. Wallis and David M. Young during which the discrepancies and/or lack of information on our Drawing Nos. BLM-5-4 and BLM-5-5 was discussed.

Accordingly, these two drawings have been revised and we herewith resubmit them (six copies each) for inclusion in the processing of our subject application. As in our original application, we have highlighted in yellow the information, etc., on these drawings which pertains to the subject pipeline application.

We greatly appreciate the cooperation shown in this matter and the expeditious handling of all applications. Note that there is also enclosed herewith a certified copy of a resolution authorizing the undersigned to execute this application on behalf of Southern Natural Gas Company.

Inquiries concerning this application should be directed to Mr. Donald E. Wallis, Assistant Encroachments Coordinator, Southern Natural Gas Company, Post Office Box 2563, Birmingham, Alabama 35202, Telephone: 205/325-7406.

Yours very truly,

SOUTHERN NATURAL GAS COMPANY

NT Williams
N. T. Williams
Vice President

NTW/DEW: jsb

Enclosures

(CERTIFIED MAIL NO. P14 - 6077009)

BEST AVAILABLE COPY

CERTIFIED COPY OF RESOLUTION
OF THE BOARD OF DIRECTORS OF
SOUTHERN NATURAL GAS COMPANY

I, the undersigned W. A. Major, Jr.,
Assistant Secretary of Southern Natural Gas Company a Dela-
ware corporation, do hereby certify that the following is a true and correct copy of
a resolution duly adopted at a meeting of the Board of Directors of Southern Natural
Gas Company on October 25, 1979, and said resolution is in full force and effect on
the date hereof:

"RESOLVED, that William E. Matthews, IV, J. W. Bledsoe,
and N. T. Williams, each of which being Vice Presidents of
the Company, each be, and hereby is, authorized to execute
on behalf of the Company contracts for construction and ser-
vices in connection with facilities which the Company has
been authorized by the Federal Energy Regulatory Commis-
sion to construct; contracts for rental of equipment and per-
formance of work or services relating to the maintenance,
servicing or repair of existing facilities of the Company;
rights-of-way, and permits and bonds in connection there-
with; contracts for facilities necessary or desirable in the
conduct of the Company's business; and any other contract
not specified above, provided that the Company's total obli-
gation or liability under such other contract does not exceed
\$3,000,000.00."

RECEIVED
MAY 14 1 31 PM '80
BUREAU OF REVENUE
OFFICE OF THE COMPTROLLER
GENERAL

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the
seal of said Corporation this 5th day of May,
198 0.

wa Major

Assistant Secretary

(SEAL)

BEST AVAILABLE COPY

1. PIPE SPECIFICATIONS

<u>O.D.</u>	<u>W.T.</u>	<u>Grade</u>	<u>Length</u>	<u>Maximum Operating Pressure</u>
3.500"	.300"	B	516'	2140 PSI
6.625"	.432"	X42	9,989'	2140 PSI
8.625"	.500"	X42	22,466'	2140 PSI
8.625"	.375"	X42	30,590'	1200 PSI
6.625"	.432"	X42	9,491'	2140 PSI

2. PIPE COATING

1" Thick Concrete Over Coal Tar Enamel Except For 3.500" O.D. Pipe Which Will Have Coal Tar Enamel Only.

3. R/W LIMITS

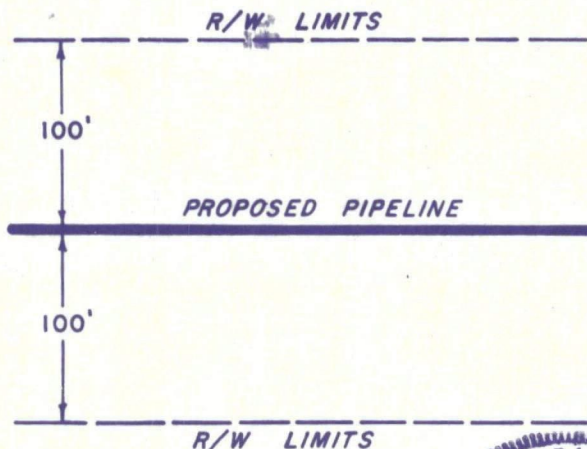
100 Feet On Either Side of Line.

4. EXISTING SNG PIPELINE - BLOCK 129

14.000" O.D. X .500" W.T., Grade X52, 1200 PSI

5. NAME OF PRODUCT: Natural Gas
6. CLASS LOCATION: Class I Location
7. GOVERNING CODE: Part 192, Title 49, of The Code of Federal Regulations.
8. SPOIL DISPLACEMENT: Spoil will be deposited so as not to decrease water depth by more than 0.5 ft. (Approx. 35,670 Cu.Yds.Total)

RECEIVED
MAY 14 1 31 PM '80
BUR OF LAND MGMT.
OUTER CONTINENTAL
SHELF OFFICE
NEW ORLEANS, LA.



NOTE: THE RIGHT-OF-WAYS OF THESE PIPELINES ARE ACCURATELY REPRESENTED AND THE DESIGN CHARACTERISTICS OF THESE PIPELINES ARE IN COMPLIANCE WITH D.O.T. REGULATIONS.

REVISED



APPLICATION BY
SOUTHERN NATURAL GAS CO.
BIRMINGHAM, ALABAMA

OCG-64326

**PROPOSED NATURAL
GAS PIPELINES**

**MAIN PASS AREA
GULF OF MEXICO**



United States Department of the Interior

IN REPLY REFER TO

OCS-G 4326

BUREAU OF LAND MANAGEMENT

NEW ORLEANS OUTER CONTINENTAL SHELF OFFICE

HALE BOGGS FEDERAL BUILDING

500 CAMP STREET-SUITE 841

NEW ORLEANS, LA. 70130

BEST AVAILABLE COPY

May 6, 1980

Memorandum

**To: Conservation Manager
Gulf of Mexico OCS Operations**

**From: Manager
New Orleans OCS Office**

Subject: Review of Pipeline Right-of-way Application (OCS-G 4326)

In accordance with the memorandum of understanding between the Bureau of Land Management and U. S. Geological Survey signed August 1, 1974, the subject application is enclosed.

Please review the technical aspects of the proposed pipeline. If you have any questions regarding this matter, please contact Mr. Autry J. Britton of this office.

Enclosures

- 1-Application dated April 24, 1980
- 2-Drawing No. BLM-5, Sheet 1 of 6 dated January 18, 1980
- 3-Drawing No. BLM-5-1, Sheet 2 of 6 dated January 18, 1980
- 4-Drawing No. BLM-5-2, Sheet 3 of 6 dated January 18, 1980
- 5-Drawing No. BLM-5-3, Sheet 4 of 6 dated January 18, 1980
- 6-Drawing No. BLM-5-4, Sheet 5 of 6 dated January 18, 1980
- 7-Drawing No. BLM-5-5, Sheet 6 of 6, Revision 1 dated May 5, 1980
- 8-Letter dated May 5, 1980

NOTED - LANZA MAY 8 1980

BEST AVAILABLE COPY

SOUTHERN NATURAL GAS COMPANY

POST OFFICE BOX 2563

BIRMINGHAM, ALABAMA 35202

May 5, 1980

MAY 6 1 05 PM '80

RECEIVED
OUTER
MAY 6 1980

By Federal Express

New Orleans OCS Office
Bureau of Land Management
Hale Boggs Federal Building
500 Camp Street
Suite 841
New Orleans, Louisiana 70130

Attention: Mrs. Boehm

Dear Mrs. Boehm:

Enclosed are thirty (30) copies of Southern Natural Gas Company's Drawing Number BLM-5-5. Please substitute these drawings for the original which you received previously.

Thank you very much for your help. If you need further information please feel free to call me at (205) 325-7277.

Very truly yours,

SOUTHERN NATURAL GAS COMPANY



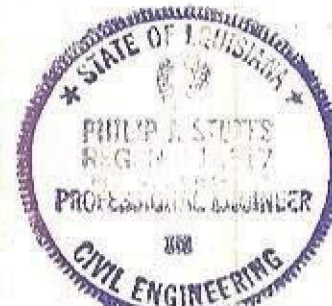
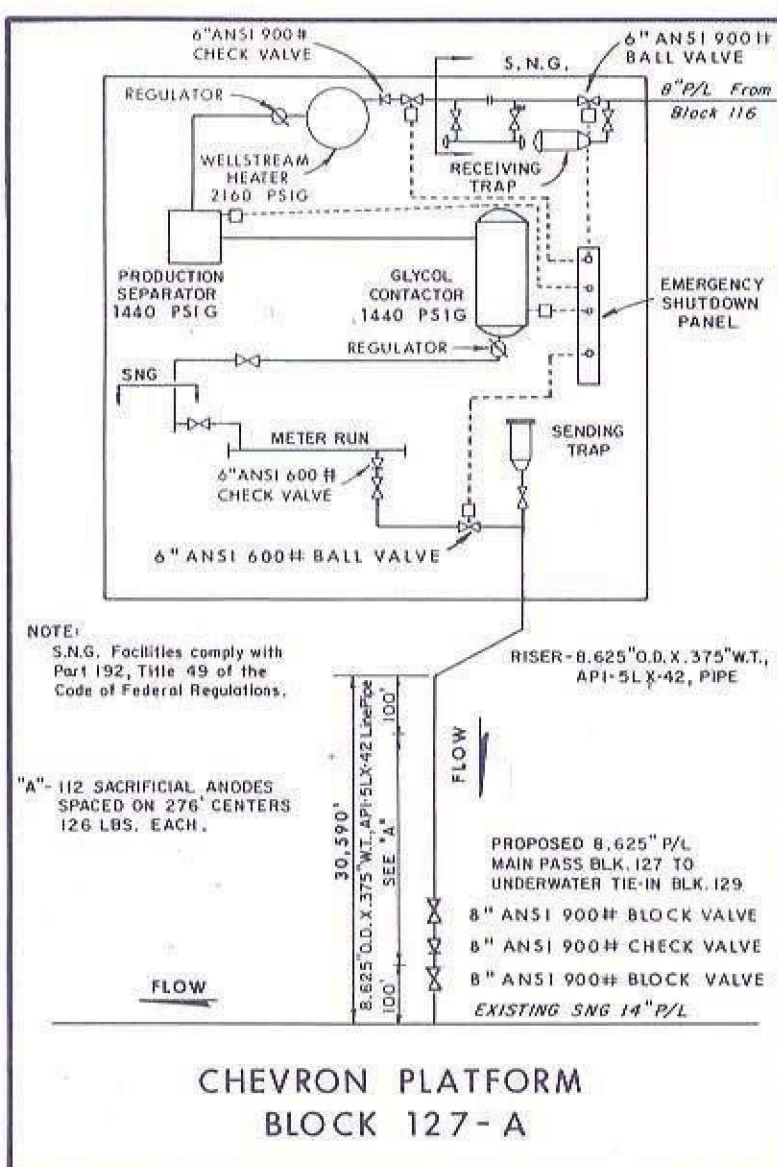
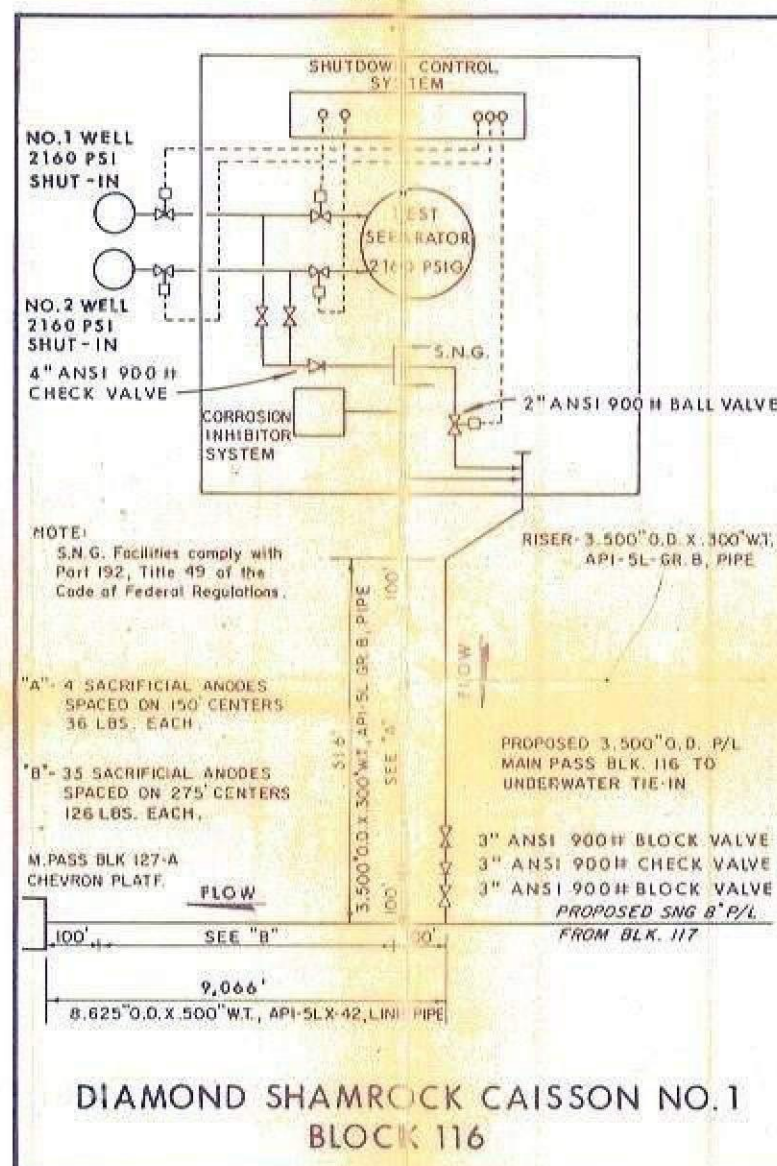
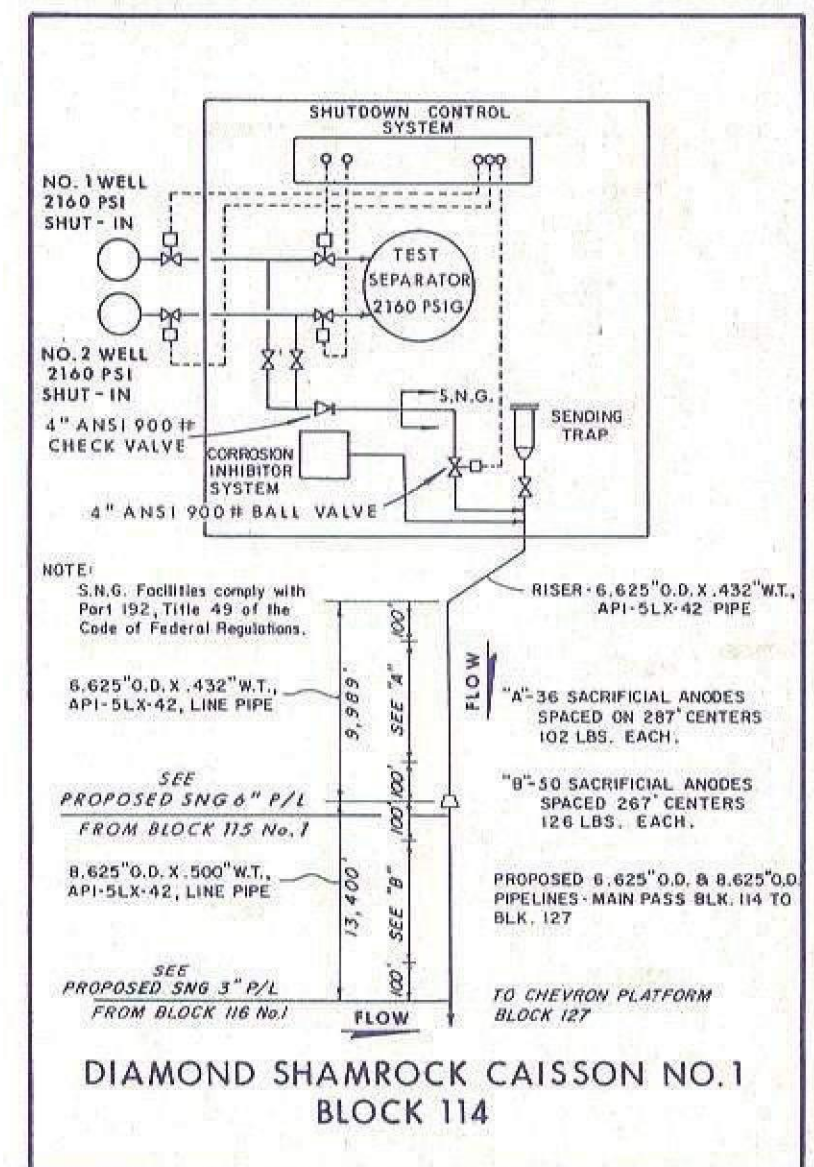
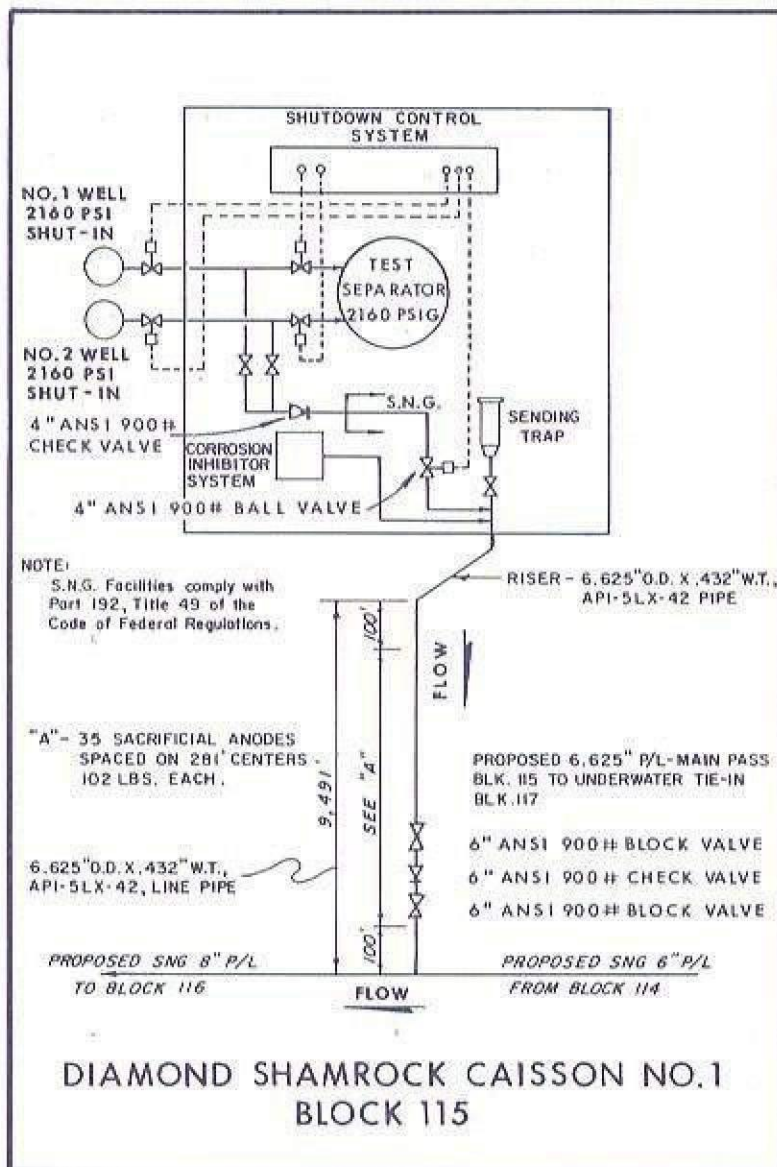
Cliff Hare

CJH/so

Enclosure

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MAY 6 1 10 PM '80
BUR OF LAND MGMT.
OUTER CONTINENTAL
SHELF OFFICE
NEW ORLEANS, LA.



APPLICATION BY
SOUTHERN NATURAL GAS CO.
BIRMINGHAM, ALABAMA

PROPOSED NATURAL
GAS PIPELINES
MAIN PASS AREA
GULF OF MEXICO

REV. 1, 5/5/80, REVISED CHEVRON PLATFORM BLOCK 127-A,
M.J.M., H.A.D.,

SHEET 6 OF 6 DATE: 1/18/80
DWG. NO. BLM-5-5

REVISED 005-G 4326

NEW ORLEANS OCS
 FILE CODE _____
 ROUTE _____ INITIAL _____
 MGR. _____
 ASST. MGR. _____
 DATE 1 1980
 LEGAL _____
 PAO _____
 EAD _____
 OPS _____
 STUDIES _____
 MGMT. SER. _____

SOUTHERN NATURAL GAS COMPANY RECEIVED

POST OFFICE BOX 2563
 BIRMINGHAM, ALABAMA 35202

MAY 1 12 44 PM '80

BUR. OF LAND MGMT.
 OUTER CONTINENTAL
 SHELF OFFICE
 NEW ORLEANS, LA.

April 24, 1980

New Orleans OCS Office
 Bureau of Land Management
 Hale Boggs Federal Building
 Suite 841
 500 Camp Street
 New Orleans, Louisiana 70130

SUBJECT: APPLICATION FOR RIGHT-OF-WAY ACROSS OUTER CONTINENTAL SHELF BY SOUTHERN NATURAL GAS COMPANY FOR A PROPOSED 6.625-INCH O.D. NATURAL GAS PIPELINE IN AND/OR THROUGH BLOCKS 115, 116 AND 117 OF THE MAIN PASS AREA, OFFSHORE, LOUISIANA, FEDERAL WATERS (SNGCO.'S REF.: LINE NO. 2 - DIAMOND SHAMROCK MAIN PASS PROJECT)

Gentlemen:

Pursuant to the authority granted in Section 5(e) of the Outer Continental Shelf Lands Act (67 Stat. 462)(43 U.S.C. 1331), as amended (92 Stat. 629) and, in compliance with the regulations contained in Title 43, ~~C.F.R.~~ 3340, Southern Natural Gas Company hereby applies, in triplicate, for a right-of-way two hundred feet (200') in width to construct, maintain and operate a 6.625-inch O.D. pipeline for the transportation of natural gas as depicted on the certified map identified as BLM-5-1 (scale 1" = 4,000'), six print copies of which are attached hereto and made a part hereof, along with six print copies each of a vicinity map identified as BLM-5, profiles of the route identified as BLM-5-3 and BLM-5-2, a specification and right-of-way detail sheet identified as BLM-5-4 and a piping schematic identified as BLM-5-5. In the event the right-of-way is approved, Southern Natural Gas Company agrees to be bound by the provisions of said regulations.

This pipeline is one of five pipelines which Southern Natural Gas Company proposes to construct as a part of its Diamond Shamrock Main Pass Project and it will be referred to as Line No. 2 in regards to the overall Project. Our applications for the other four pipelines are being filed simultaneously with this application due to the relationship of each to the other and to facilitate review of our applications. The six drawings which have been prepared for this Project depict all five proposed pipelines as well as information pertaining to each. For the sake of clarity we have highlighted in yellow the information etc. on the referenced drawings which pertains to the individual pipelines. We trust this will be beneficial in the expeditious processing out of our five applications.

SOUTHERN NATURAL GAS COMPANY

BLM - Page 2

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This pipeline, Line No. 2, will be used to transport natural gas from the Diamond Shamrock Caisson No. 1 in Block 115 to an underwater tie-in point in Block 117 at the beginning point of our proposed 8.625-inch O.D. Pipeline, Line No. 3, which is also the ending point of our proposed 6.675-inch O.D. Pipeline, Line No. 1 from Block 114. Construction of this pipeline, as well as the other four in this Project is scheduled and expected to commence on or about July 1, 1980.

In accordance with applicable regulations, a copy of this application and attachments thereto have been mailed by Certified Mail, Return Receipt Requested, to each Lessee or right-of-way holder whose lease or right-of-way is affected by this application. Such lessees and right-of-way holders are identified on "Exhibit A" which is attached hereto. Copies of the return receipts showing service upon such lessees and holders will be forwarded to your office as soon as such is received.

As set forth in the February 13, 1978 guidelines and amendments thereto, Southern Natural Gas Company, the applicant, agrees to the following:

1. The pipelines will be buried to a minimum depth of three feet below the mudline, as the water depth is less than 200 feet, all as shown on Drawing No. BLM-5-3.
2. All valves and fittings will be buried to a minimum depth of one foot below the mudline at all water depths.
3. This proposed pipeline, Line No. 2, will not cross any existing pipelines.
4. Three copies of the report titled "Archeological Hazard and Engineering Study of Proposed SNG Natual Gas Pipeline Routes Diamond Shamrock Pipelines in Main Pass Area Gulf of Mexico for Southern Natural Gas Company, February 1980", which was prepared by John E. Chance & Associates, Inc. for the subject Project are enclosed herewith.
5. "Same as No. 4 above".
6. Within 90 days after completion of construction, Southern Natural will provide (1) a geophysical survey report or record from other state-of-the art method establishing the location of the completed pipeline within an accuracy of 100+ feet, (2) an as-built map prepared in accordance with the minimum requirements established for the map depicting the proposed route, also reflecting the total length of the line and distance between X and Y coordinates (all in feet) and depicting those points, if any, at which the pipeline is located outside of the right-of-way and (3) a copy of the diving inspector's report if such is requested.
7. Sensing devices and fail close valves will be installed by producer and locations of such are indicated on Drawing No. BLM-5-5.

SOUTHERN NATURAL GAS COMPANY

BLM - Page 3

RECEIVED

8. All changes, additions or deletions to any equipment on a permitted pipeline will be made only after first securing the expressed written approval of your office.
9. Your office will be notified at least 5 days prior to commencing construction of this pipeline and will be advised of a.) the construction date and approximate starting time, b.) location of starting point, c.) name of contractor and barge, d.) availability of heliport facilities on the barge, e.) nearest platform with heliport facilities and f.) approximate completion date.
10. Your office will be notified at least 48 hours in advance of the hydrostatic test and will be advised of the location of the pressure recorder and the approximate starting time of the test. Hydrostatic test data, including procedure, hold time and results will be furnished within ninety days following the completion of same.
11. Any breaks, leaks, failures or accidents on the subject pipelines will be reported within 12 hours after each occurrence as provided for in said guidelines.

Additional information:

1. All contact and inquiries, technical or otherwise, must be directed to and coordinated with and through:

Mr. Donald E. Wallis
Assistant Encroachments Coordinator
Southern Natural Gas Company
Post Office Box 2563
Birmingham, Alabama 35202
205/325-7406 or 325-7410

2. Pipeline Specifications for Line No. 2:
Line Pipe: 6.625-inch O.D. Steel Pipe
0.432" W.T.
28.57 lbs./ft.
API-5LX-42

Class 1 Location (designed for Class 3 Location)

Riser Pipe: 6.625-inch O.D. Steel Pipe
0.432" W.T.
28.57 lbs./ft.
API-5LX-42
Class 1 Location (designed for Class 3 Location)

3. The cathodic protection system for this pipeline (Line No. 2) will be 35 sacrificial zinc anode bracelets weighing 102 lbs. each and spaced on 281 ft. centers as shown and noted on our attached Drawing No. BLM-5-5.

SOUTHERN NATURAL GAS COMPANY

BLM - Page 4

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The anticipated life of these lines is forty (40) years. The following calculations were used in designing this sacrificial anode system. A maximum of four percent (4%) coating damage was assumed.

SOUTHERN NATURAL GAS COMPANY
ENGINEERING DEPARTMENT
SHREVEPORT, LOUISIANA

Calculations for Line No. 2:

6.625-inch O.D. Line
9,491 feet in length
Current: .005 amps./sq.ft. of bare pipe (4%)
Life: 40 years
25 lbs. of zinc/amp./year

9,491 linear ft. x 1.73 sq.ft./linear ft. = 16,419 sq.ft.
16,419 sq.ft. x .04 bare pipe = 657 sq.ft. of bare pipe
657 sq.ft. of bare pipe x .005 amps./sq.ft. bare pipe = 3.285 amps.
3.285 amps. x 25 lbs. zinc/amp./year x 40 years = 3,285 lbs. of zinc.
3,285 lbs.
102 lbs./bracelet = 33 bracelets
35 bracelets will be used

4. The external pipeline coating for this proposed line and the riser (Line No. 2) will consist of 5/32" coal tar enamel and a 1" thick concrete (140 lbs./cu.ft.) coating.
5. A corrosion inhibition system will be installed and designed to flow one (1) pint of Nalco 970 inhibitor per million cubic feet of gas flow. A storage tank and injection pump will be installed at the Diamond Shamrock Caisson No. 1 in Block 115 (and at each of the other Diamond Shamrock Caissons involved in the Project), giving internal protection to the pipeline where it is subjected to three phase flow.
6. The bulk specific gravity of empty pipe is as follows:

6.625" O.D. x 0.432" W.T. pipe with reference to saltwater.
28.57 lbs./ft. = weight of pipe
24.24 lbs./ft. = weight of concrete
1.58 lbs./ft. = weight of enamel
Sp. Gravity = $\frac{28.57 + 24.24 + 1.58}{27.18 \times 1.02} = 1.96$
7. The anticipated specific gravity of natural gas is 0.6.
8. The anticipated operating pressure will range from 2140 psi (max.) to 1200 psi (min.).
9. (A) The design working pressure of the system is as follows:

(a) Maximum allowable operating pressure based on fittings will be 2140 psi (20 psi below the maximum working pressure of ANSI 900# fittings).

SOUTHERN NATURAL GAS COMPANY

BLM - Page 5

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(b) Maximum allowable operating pressure based on line pipe will be:

MAOP = 2 SFt/D

MAOP = $2 \times 42,000 \times .50 \times 0.432 / 6.625$

MAOP = 2739 psi (Class 3 Location)

(c) Maximum allowable operating pressure based on riser pipe will be:

MAOP = 2SFt/D

MAOP = $2 \times 42,000 \times .50 \times 0.432 / 6.625$

MAOP = 2739 psi (Class 3 Location)

(B) The maximum capacity of the lines will be 22,000 MCF/D and is based on the anticipated operating pressures.

10. The hydrostatic test pressure will be 3240 PSI minimum with a hold time of eight (8) hours minimum.
11. Source of pressure to be producer's facilities and will be as shown and noted on the schematic, Drawing No. BLM-5-5.
12. The natural gas from this proposed pipeline (Line No. 2) will flow into Southern Natural Gas Company's proposed 8.625-inch O.D. natural gas pipeline (Line No. 3) at the proposed underwater tie-in point in Block 117. The maximum allowable operating pressure of this proposed pipeline is 2140 psi.
13. The construction information which is anticipated at this time:
 - a. Starting date: July 1, 1980
 - b. Method of Construction: Conventional lay barge
 - c. Method of Burial: Hydraulic jetting
 - d. Time required to lay pipe: 60 days
 - e. Time required to complete Project: 60 days(This does not include producer's work on Platforms)

Your file identified as New Orleans Miscellaneous File No. 010 contains certified copies of all corporate papers for Southern Natural Gas Company and there is enclosed herewith a certified copy of a resolution authorizing the undersigned to execute this application on behalf of Southern Natural Gas Company.

This application (and any amendments made hereto) is made with our full knowledge and concurrence with the OCS Lands Act (43 U.S.C. 1331 et seq.), (P.L.95-372), including the following: Sec. 5(e) addressing pipeline rights of way, Requirements of the Federal Energy Regulatory Commission notice of hearing, transportation and purchase of oil and gas without discrimination; Sec. 5(f) (1) addressing operation of pipelines in accordance with competitive principles, including open and nondiscriminatory access to both owner and non-owner shippers; Sec. 5(f) (2) which may allow exemptions of the requirements in Sec. 5(f) (1); and Sec. 21(b), addressing the assuring of maximum environmental protection, including the safest practices for pipeline burial.

as amended,

SOUTHERN NATURAL GAS COMPANY

BLM - Page 6

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NATIONAL

Additionally, we expressly agree that if any site, structure, or object of historical or archaeological significance should be discovered during the conduct of any operations within the permitted right of way, we shall report immediately such findings to the Manager, New Orleans OCS Office, and make every reasonable effort to preserve and protect the cultural resource from damage until the Manager, New Orleans OCS Office, has given directions as to its preservation.

Enclosed please find a Nondiscrimination in Employment Statement executed by the undersigned for Southern Natural Gas Company.


Also enclosed herewith is our Check No. 407496 in the amount of \$250.00 for the filing fee of \$100.00 and the first five year's rental of \$150.00 computed on 1.798 miles of rights-of-way at \$15.00 per mile per year (2 miles x \$15/mi./yr. x 5 yr. = \$150.00).

The expeditious handling of this matter will be greatly appreciated.

Inquiries concerning this application should be directed to Mr. Donald E. Wallis, Assistant Encroachments Coordinator, Southern Natural Gas Company, Post Office Box 2563, Birmingham, Alabama 35202, Telephone: 205/325-7406.

Yours very truly,

SOUTHERN NATURAL GAS COMPANY


J. W. Bledsoe
Vice President - Transmission

DEW

JWB/DEW: jsb

Enclosures

(CERTIFIED MAIL NO. 4039796)

cc: Lessees and Rights of Way Holders
Listed on Attachment Entitled "Exhibit A"
Certified Mail, Return Receipt Requested

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BUR OF LAND MGMT.
OUTER CONTINENTAL
SHELF OFFICE
NEW ORLEANS, LA

"EXHIBIT A"

The following Lessees and Rights-of-Way holders on this date were furnished a copy of this application by Certified Mail, Return Receipt Requested:

Diamond Shamrock Corporation
Attn: Wayne Cummins
Post Office Box 631
Amarillo, Texas 79173
(CERTIFIED MAIL NO. 4039797)

Main Pass Area:

Block 115

Rights of Way for Pipelines: None

Oil & Gas Lease:

OCS-G-2948:

Diamond Shamrock Corporation

Block 116

Rights of Way for Pipelines: None

Oil & Gas Lease:

OCS-3419:

Diamond Shamrock Corporation

Block 117

Rights of Way for Pipelines: None

Oil & Gas Lease:

Not Leased

NOTE: This form must be executed as an original.

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OUTER CONTINENTAL
SHELF OFFICE
NEW ORLEANS, LA

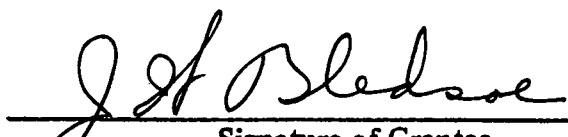
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NONDISCRIMINATION IN EMPLOYMENT

As a condition precedent to the approval of the granting of the subject pipeline right-of-way, the grantee SOUTHERN NATURAL GAS COMPANY hereby agrees and consents to the following stipulation which is to be incorporated into the application for said right-of-way.

During the performance of this grant the grantee agrees as follows:

During the performance under this grant, the grantee shall fully comply with paragraphs (1) through (7) of section 202 of Executive Order 11246, as amended, (reprinted in 41 CFR 60-1.4 (a)), which are for the purpose of preventing discrimination against persons on the basis of race, color, religion, sex or national origin. Paragraphs (1) through (7) of section 202 of Executive Order 11246, as amended, are incorporated in this grant by reference.



Signature of Grantee
J. W. Bledsoe, Vice President
Southern Natural Gas Company *DEW*

Date: 4-29-80

CERTIFIED COPY OF RESOLUTION
OF THE BOARD OF DIRECTORS OF
SOUTHERN NATURAL GAS COMPANY

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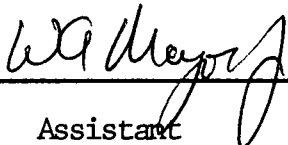
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OUTER CONTINENTAL
SHELL OFFICE
NEW ORLEANS, LA

I, the undersigned William A. Major, Jr., Assistant
Secretary of Southern Natural Gas Company, a Delaware Corporation, do hereby
certify that the following is a true and correct copy of a resolution duly adopted at
a meeting of the Board of Directors of Southern Natural Gas Company on October
25, 1979, and said resolution is in full force and effect on the date hereof:

"RESOLVED, that William E. Matthews, IV, J. W. Bledsoe, and
N.T. Williams, each of which being Vice Presidents of the
Company, each be, and hereby is, authorized to execute on
behalf of the Company contracts for construction and services
in connection with facilities which the Company has been
authorized by the Federal Energy Regulatory Commission to
construct; contracts for rental of equipment and performance
of work or services relating to the maintenance, servicing or
repair of existing facilities of the Company; rights-of-way, and
permits and bonds in connection therewith; contracts for
facilities necessary or desirable in the conduct of the
Company's business; and any other contract not specified above,
provided that the Company's total obligation or liability under
such other contract does not exceed \$3,000,000.00"

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of
said Corporation this 29 day of April, 1980.



Assistant Secretary

[SEAL]

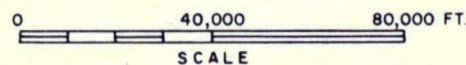
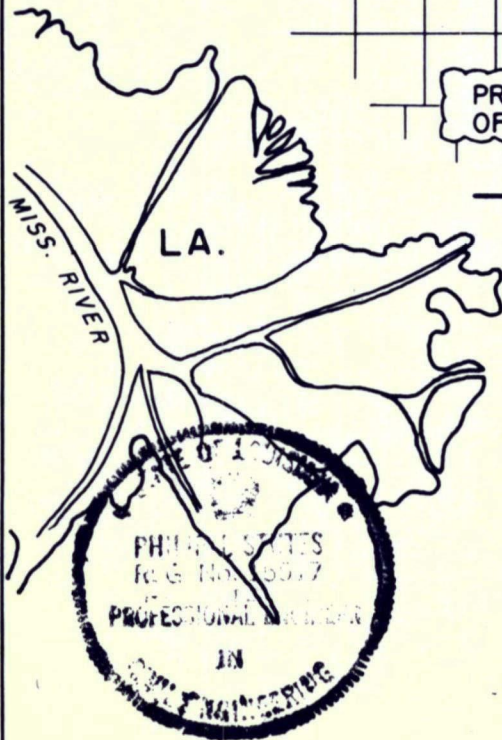
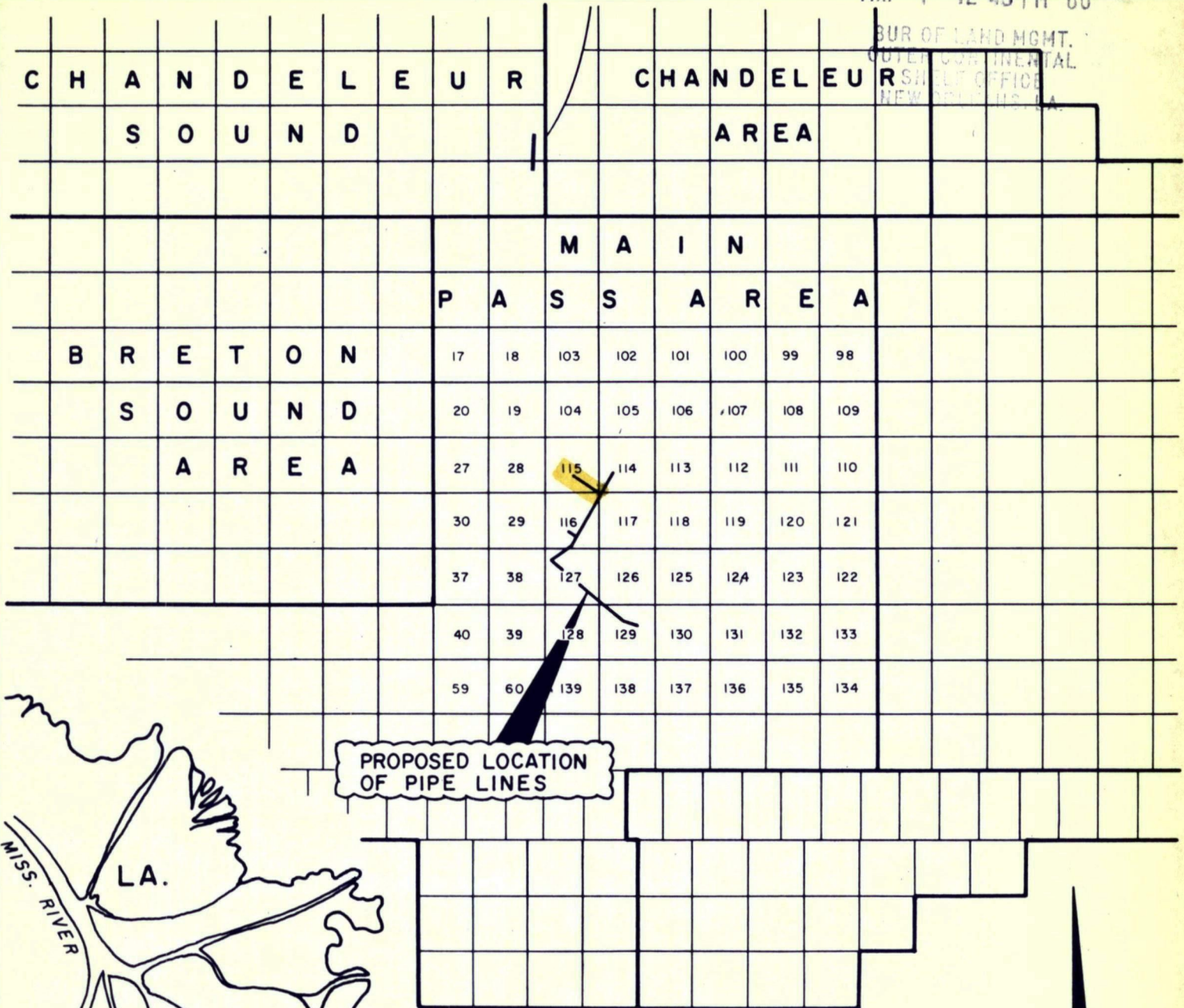
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OUTER CONTINENTAL
SHELF OFFICE
NEW ORLEANS, LA.



VICINITY MAP
PROPOSED NATURAL
GAS PIPELINES
MAIN PASS AREA
GULF OF MEXICO

APPLICATION BY
SOUTHERN NATURAL GAS CO.
BIRMINGHAM, ALABAMA

Philip J. States
REGISTERED CIVIL ENGINEER NO. 15517
STATE OF LOUISIANA
JOHN E. CHANCE & ASSOCIATES, INC.

SHEET 1 OF 6 DATE: 1/18/80
DWG. NO. BLM-5

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OCS-G 4326

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OUTER CONTINENTAL
SHELF OFFICE
NEW ORLEANS, LA.

DIAMOND SHAMROCK
CAISSON NO.1

114

0+00 BEGIN 6" P/L
X=2,803,047.00'
Y= 315,170.00'
Lat. 29°30'32.509"
Long. 88°48'30.920"

DIAMOND SHAMROCK
CAISSON NO.1

0+00 BEGIN 6" P/L
X=2,789,800.00'
Y= 311,380.00'
Lat. 29°29'57.862"
Long. 88°51'01.735"

115

PROPOSED 6" PIPELINE
53°29'53"E

PROPOSED 6" PIPELINE
53°30'02"W

LENGTH = 9,491'

VALVE 94+90.35'
END 6" P/L

VALVE 99+89.26'
END 6" P/L

PROPOSED VALVE (0+00 BEGIN 8" P/L)

X=2,797,977.00'
Y= 306,563.00'
Lat. 29°29'08.422"
Long. 88°49'30.417"

0+00 BEGIN 3" P/L
X=2,790,666.00'
Y= 295,318.00'
Lat. 29°27'18.699"
Long. 88°50'55.878"

DIAMOND SHAMROCK
CAISSON NO.1

R=2000'
Δ=32°58'31"
T= 591.95'
L= 1151.05'

VALVE 5+16.40'
END 3" P/L

133+99.96' PROPOSED VALVE TAP
X=2,791,110.89'
Y= 295,055.81'
Lat. 29°27'16.010"
Long. 88°50'50.910"

116

PROPOSED 3" PIPELINE
53°49'25"W

PROPOSED 8" PIPELINE
559°29'15"E

117



126

NOTE: The Right-of-Ways of proposed pipelines is accurately represented and the design characteristics of these pipelines are in compliance with DOT regulations.

CHEVRON PLATFORM
BLOCK 127-A

563°47'56"W

P.C. 156+08.40'
X=2,789,979.30'
Y= 293,159.31'
Lat. 29°26'57.480"
Long. 88°51'04.172"

P.T. 167+59.45'
X=2,789,144.91'
Y= 292,389.64'
Lat. 29°26'50.041"
Long. 88°51'13.796"

127

224+65.68' END 8" P/L
X=2,784,025.00'
Y= 289,870.00'
Lat. 29°26'26.195"
Long. 88°52'12.303"

(SEE SHEET 3)
PROPOSED 8" P/L

PLAN

0 4000 8000 FT.
SCALE

PROPOSED NATURAL
GAS PIPELINES

MAIN PASS AREA
GULF OF MEXICO

APPLICATION BY
SOUTHERN NATURAL GAS CO.
BIRMINGHAM, ALABAMA

SHEET 2 OF 6 DATE: 1/18/80

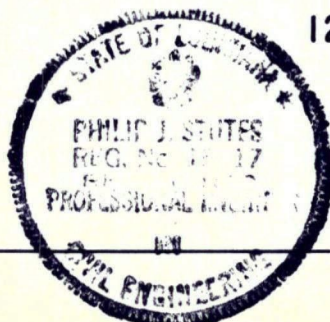
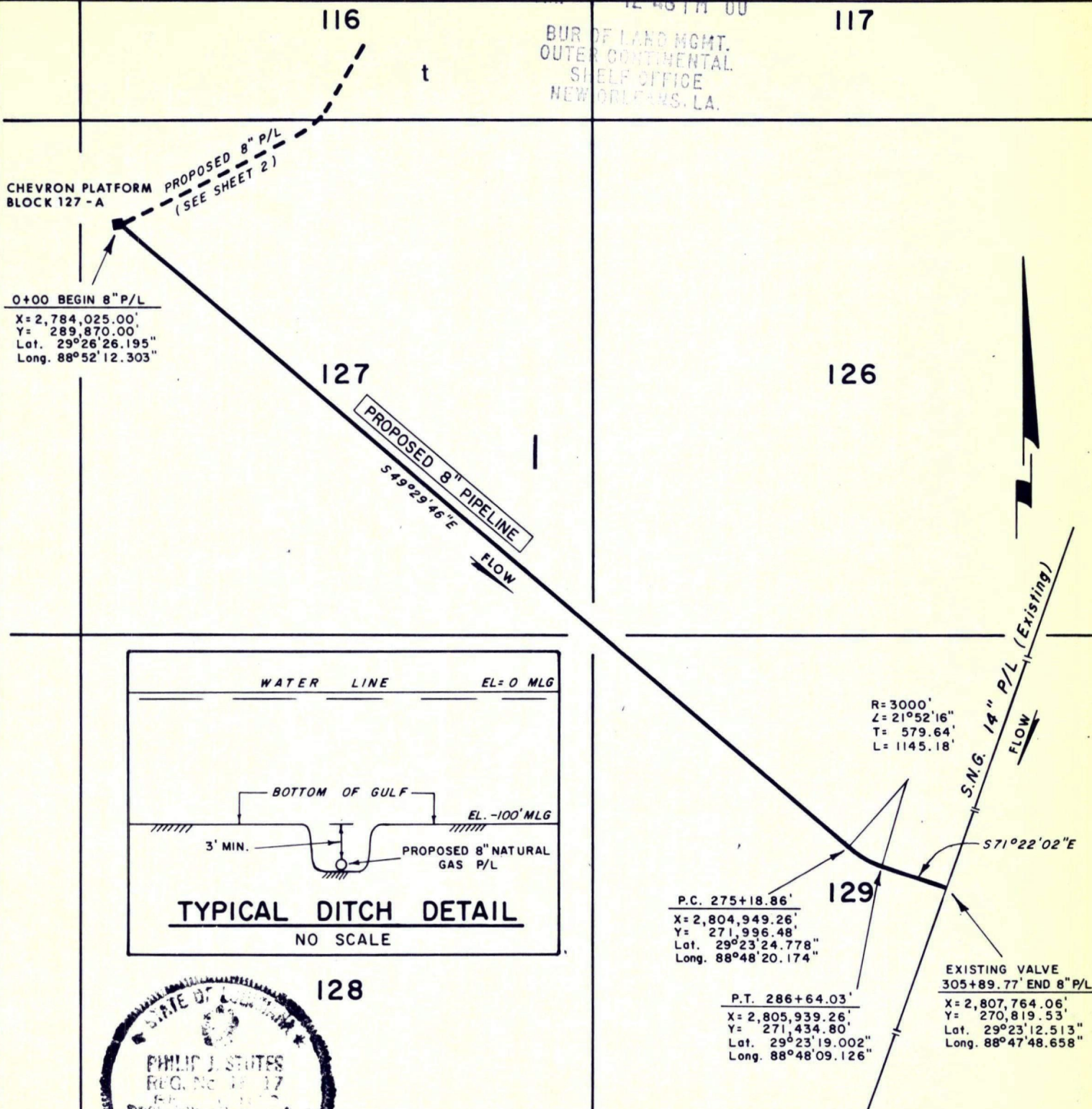
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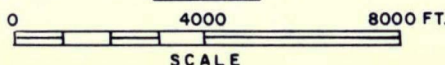
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BUR OF LAND MGMT.
OUTER CONTINENTAL
SHELF OFFICE
NEW ORLEANS, LA.

OCS-G 4326



APPLICATION BY
SOUTHERN NATURAL GAS CO.
BIRMINGHAM, ALABAMA

PLAN



PROPOSED NATURAL
GAS PIPELINES
MAIN PASS AREA
GULF OF MEXICO

SHEET 3 OF 6 DATE: 1/18/80
DWG. NO. BLM-5-2

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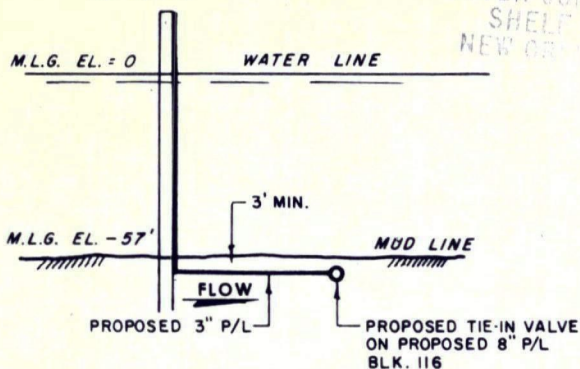
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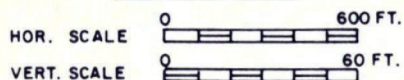
OCB-6 4326

DIAMOND SHAMROCK CAISSON NO. 1
BLOCK 116

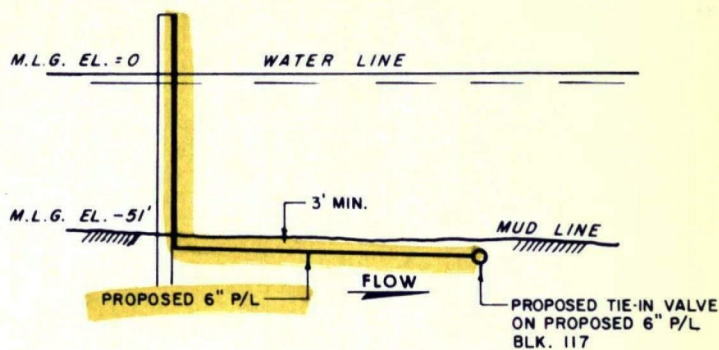
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SHELF OFFICE
NEW ORLEANS, LA.



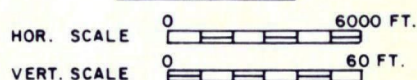
PROFILE



DIAMOND SHAMROCK CAISSON NO. 1
BLOCK 115



PROFILE

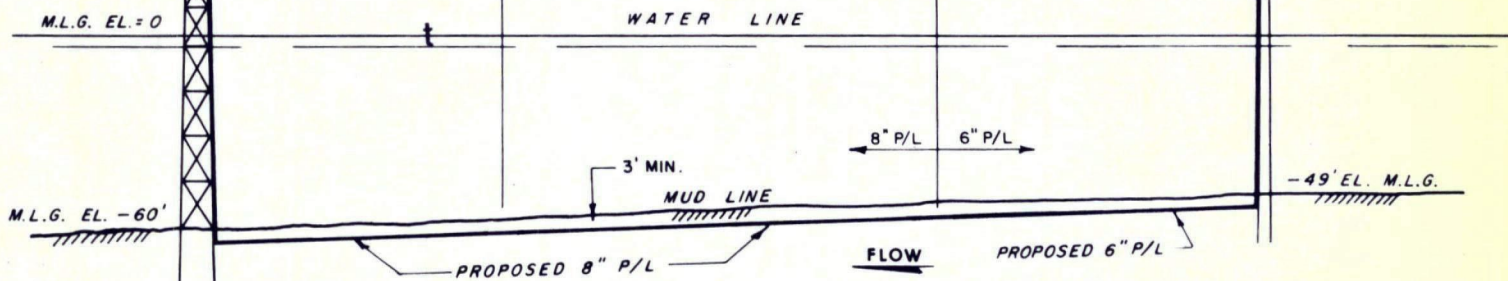


CHEVRON PLATFORM
BLK. 127-A

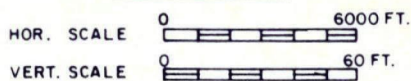
BLK. 116
PROPOSED
VALVE TAP

BLK. 117
PROPOSED
VALVE TAP

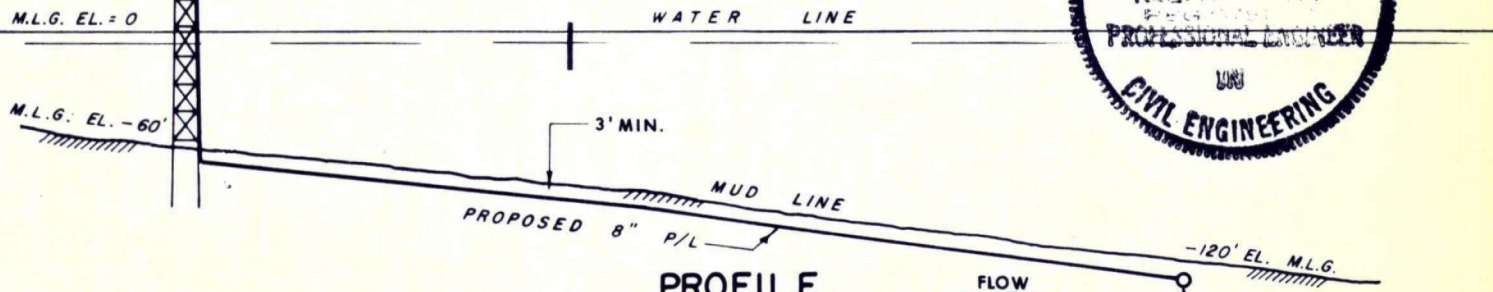
DIAMOND SHAMROCK CAISSON NO. 1
BLOCK 114



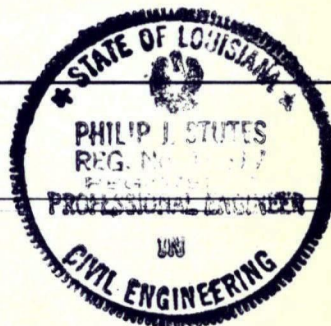
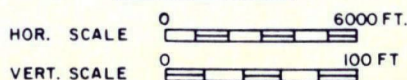
PROFILE



CHEVRON PLATFORM
BLK. 127-A



PROFILE



EXISTING TAP VALVE ON
S.N.G. 14" P/L BLK. 129

**PROPOSED NATURAL
GAS PIPELINES
MAIN PASS AREA
GULF OF MEXICO**

APPLICATION BY
SOUTHERN NATURAL GAS CO.
BIRMINGHAM, ALABAMA

SHEET 4 OF 6 DATE: 1/18/80

DWG. NO. BLM-5-3

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DCS-6 4326

1. PIPE SPECIFICATIONS

O.D.	W.T.	Grade	Length	Maximum Operating Pressure
3.500"	.300"	B	516'	2140 PSI
6.625"	.432"	X42	9,989'	2140 PSI
8.625"	.500"	X42	22,466'	2140 PSI
8.625"	.375"	X42	30,590'	1200 PSI
6.625"	.432"	X42	9,491'	2140 PSI

2. PIPE COATING

1" Thick Concrete Over Coal Tar Enamel.

3. R/W LIMITS

100 Feet On Either Side of Line.

4. EXISTING SNG PIPELINE - BLOCK 129

14.000" O.D. X .500" W.T., Grade X52, 1200 PSI

5. NAME OF PRODUCT:

Natural Gas

6. CLASS LOCATION:

Class I Location

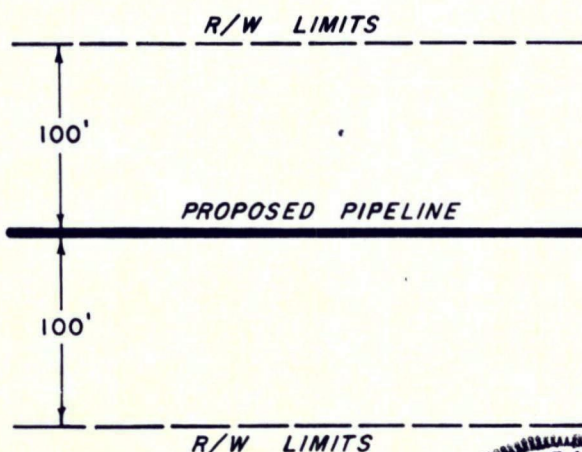
7. GOVERNING CODE:

Part 192, Title 49, of The Code of Federal Regulations.

8. SPOIL DISPLACEMENT:

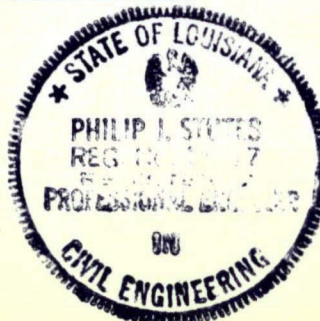
Spoil will be deposited so as not to decrease water depth by more than 0.5 ft. (Approx. 35,670 Cu.Yds.Total)

RECEIVED
MAY 1 12 46 PM '80
BUREAU OF LAND MGMT.
OUTER CONTINENTAL
SHELF OFFICE
NEW ORLEANS, LA.



NOTE: THE RIGHT-OF-WAYS OF THESE PIPELINES ARE ACCURATELY REPRESENTED AND THE DESIGN CHARACTERISTICS OF THESE PIPELINES ARE IN COMPLIANCE WITH D.O.T. REGULATIONS.

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SOUTHERN NATURAL GAS CO.
BIRMINGHAM, ALABAMA



PROPOSED NATURAL
GAS PIPELINES
MAIN PASS AREA
GULF OF MEXICO

SHEET 5 OF 6 DATE: 1/18/80
DWG. NO. BLM-5-4

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PIPELINE APPLICATION CHECK LIST

INSTRUCTIONS: Check the blank on the left if the statement is affirmative or correct data submitted. Make N/A (not applicable) where appropriate. Place an X in the blank if the answer is no or if the data was not submitted. All blanks marked X must be rectified to a check (or qualified) before approval can be given for the pipeline. Enter data in the blanks furnished.

A. Verify the following general information:

I. SOP

- ☒ a. Do the leases involved on the P/L application appear on the current Suspension of Production (SOP) Lease List?

II. POD

- ☒ a. Is the pipeline presently covered by an approved Plan of Development (POD)?

- III. Lease Stipulation Yes _____ No ☒
 If yes, does lease require an archaeological survey? Yes _____
 No _____

IV. USGS Application

- ☐ a. The applicant ~~is~~ a Federal lease holder and the pipeline is to be used for such purposes as:
- ☐ 1. Moving production to a control point for gathering, treating, storing, or measuring.
 - ☐ 2. Delivery of production to a point of sale.
 - ☐ 3. Delivery of production to a pipeline operated by a transportation company.
 - ☐ 4. Moving fluids in connection with lease operations, such as for injection purposes.
- ☐ b. The pipeline is within the lease boundary owned by the operator.
- ☐ c. Pipeline is within contiguous lease boundaries.
- ☐ d. Pipeline is within noncontiguous lease boundaries. (Note: Items b, c, and d all fall under 30 CFR 250.18)
- ☐ e. Lessee's "intent to cross" letters are received. (Wait 30 days for letters of objection. Only objections concerning interference with lease operations will be considered.)
- ☐ f. Pursuant to Secretarial Order 2974 of April 30, 1975, check the following:

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1. FWS notified _____.
2. FWS comment received _____.
3. BLM notified _____.
4. BLM comment received _____.
5. ~~Environmental Impact Evaluations completed~~ _____.
6. If related to new POD/P, date of POD/P approval _____.

V. BLM Application

- ✓ a. The pipeline ¹²~~must not be~~ a gathering line.

VI. DOT Pipelines

- X a. The pipelines are shoreward of the outlet flange at the last process facility (If yes, include 49 CFR 192 for gas P/L or 49 CFR 195 for oil P/L in approval.)

VII. DOI Pipelines

- ✓ a. Pipelines not covered by VI above.

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B. Verify that the information shown on the safety equipment schematic drawing contains the following:

- ☒ I. The pipeline leaving the platform receiving production from the platform is equipped with high- and low-pressure sensors to directly or indirectly shut-in the well or wells on the platform.
- N/A II. The pipeline delivering production to production facilities on the platform is equipped with automatic fail close valve tied into the automatic and remote shut-in system.
- N/A III. The pipeline crossing the production platform which does not deliver production to the platform, but which may or may not receive production from the platform, is equipped with high- and low-pressure sensors connected to an automatic fail close valve located in the upstream portion of the pipeline at the platform. In addition, the sensors are tied into either the platform's automatic and remote shut-in system or an independent remote shut-in system.
- N/A IV. The pipeline boarding the platform is equipped with a check valve.
- ☒ V. The pipeline leaving the platform is equipped with a check valve.
- N/A VI. The pipeline pump is shown as well as its associated high- and low-pressure shut-in device.
- N/A VII. If pipeline pilots are located on any pressure vessel or downstream of a departing check valve, all flow restriction(s), (backpressure valve(s), chokes), downstream of the process vessel, or wellhead, and upstream if check valve(s) must be indicated on the schematic.

If flow restriction(s) exist downstream of any process vessel a low pressure sensor must be installed between the flow restriction(s) and the departing check valve(s). High-pressure sensor(s) must be installed downstream of the wellhead choke.

Reference API RP 14C, Pages 23 and 59

☒ VIII. Pressure source is drawn into the schematic with the following:

- ☒ a. Source Wells.
- ☒ b. Maximum source pressure, psig 2160.

☒ IX. The rated working pressures of all separators, pumps, compressors, valves, flanges, and fittings upstream of and including the boarding automatic fail close valve are shown.

ANSI 900

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C. Verify that the location plat depicts the following:

- ☒ I. Location of pipeline
- ☒ II. Length of pipeline
- ☒ III. Size of pipeline
- ☒ IV. Type of service
- ☒ V. Direction of flow
- ☒ VI. X-Y coordinates of key points

D. Verify that the information given on the submitted data sheet is completed; and calculate the $MAOP_{sc}$, $MAOP_{rc}$, $MAOP_{p/1}$.

I. General information for calculating $MAOP_{sc}$, $MAOP_{rc}$, etc.

- a. Size of pipeline, inches 6.625
- b. Weight of pipeline, lbs./ft. 28.57
- c. Grade of pipeline X-42
- d. Wall thickness, inches 0.432
- e. Size of riser, inches 6.625
- f. Weight of riser, lbs./ft. 28.57
- g. Grade of riser X-42
- h. Wall thickness of riser, inches 0.432
- i. Minimum WP rating of piping, fittings, valves, psig 2160
- j. Hydrostatic test pressure (HTP), psig 3240
- k. Hold time, hrs. 8
- l. Classification of pipeline (oil or gas) GAS
- m. Type of pipe (ASTM A-106, API-5L, etc.) API-5L

NOTE: If ASTM A-53 Reference API RP 14E, Section 2.1.a(2)

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II. DOI Pipelines

- a. IP @ SMYS for submerged pipeline = $\frac{2st}{D}$ = 5477
- b. (.72 x IP @ SMYS) for submerged pipeline = 3944 (MAOP_{sc})
- c. IP @ SMYS for riser = $\frac{2st}{D}$ = 5477
- d. (.60 x IP @ SMYS) for riser = 3286 (MAOP_{rc})
- e. See Ii above (MAOP_{pfv}) = 2160 (MAOP_{pfv})
- ✓ f. Is 1.25 MSP \leq HTP \leq .95 (IP @ SMYS for smaller IP of a and c above)
2700 \leq 3240 \leq 5204
- ✓ g. HTP/1.25 = 2592
- ✓ h. Is HTP hold time \geq ~~2 hours~~ 8 HRS.
- ✓ i. MAOP of receiving pipeline from IV 2160 *BLM OCS - 64325*
- _____ j. MAOP_{p/l} = the smallest of b, d, ~~e~~, g, and i above
2160 (MAOP_{p/l})
- ✓ k. Test pressure ANSI & API carbon steel RTJ & RF Flanges and Valves
3250 (From Table 3.1, Page 31 API RP 14E)
- ✓ l. Is K $>$ HTP
- NOTE: If note, add statement in approval letter to insure valves and flanges are not subjected to test pressure.
- ✓ m. Is j \geq MSP
2160 \geq 2160

If not, one of the following is necessary:

1. Redundant safety equipment is afforded.
2. A departure from the requirement for redundant safety equipment:

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- E. Verify that the information was given on the submitted data sheet is complete; and calculate the life expectancy of the pipelines corrosion protection ($LE_{p/l}$)

I. General Information for Calculating $LE_{p/l}$

- ☒ a. Type of corrosion protection (platform anodes, P/L anodes, or rectifier)
- ☒ b. If pipeline anodes are used:
1. Type of anode ZINC
 2. Spacing interval, ft. 281
 3. Weight of unit anode, lbs. 102

II. Calculate Life Expectancy of Corrosion Protection

- ☒ a. If platform anodes are used, annual pipe-to-electrolyte potential measurements are required.

- ☒ b. If pipeline anodes are used:

$$LE_{p/l} = 3.82 \times 10^4 \times W^0 / DIR? = \underline{69 \text{ yrs.}}$$

W^0 = weight of one anode, pounds =

D = outside diameter of pipe, inches

I = interval = length of pipe, feet ÷ total number of anodes

R = consumption rate, lbs./amp-yr.

- ☒ c. Is our calculated $LE_{p/l} \geq 20$ years.

If not, one of the following is necessary:

- ☒ 1. The company agrees to increase their cathodic protection to meet the 20-year requirement.
- ☒ 2. Annual pipe-to-electrolyte potential measurements will be required.

F. Verify that the information given on the submitted data sheet is complete; and calculate the specific gravity on the pipeline ($SG_{p/1}$)

I. General Information pertaining to $SG_{p/1}$

- a. Description of pipelines protective coating COAL TAR ENAMEL & CONCRETE
- b. Description of risers protective coating " " " " "
- c. Description of pre-concrete coating COAL TAR ENAMEL
- d. Density of concrete, lbs./cu. ft. 140
- e. Thickness of concrete, inches 1"
- f. Thickness of asphalt/somastic 5/32
- g. Gravity or density of products:
For gas 0.6 (air = 1.0)
For oil/condensate _____ ° API, _____ (water = 1.0)
- h. Given $SG_{p/1}$ 1.96

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II. $SG_{p/l}$

N/A a. Epoxy-coated pipelines:

$$SG_{p/l} = 2.865 W/D^2$$

W = weight of bare pipe, lbs./ft.

D = diameter of pipe, inches

✓ b. For weighted pipelines:

$$SG_{p/l} = \frac{dc}{d} + \left[\frac{k_2}{(T-k_1)^2} \left(\frac{W+P}{k_3} - \frac{dc}{d} \right) \right]$$

dc = density of concrete, lbs./ft.³

d = density of fluid in which pipeline is submerged, lbs./ft.³

k_1, k_2, k_3 = coefficients from tables

T = thickness of concrete coating, inches

W = weight of bare pipe, lbs./ft.

P = weight of double enamel coat and felt wrap, or weight of asphaltmastic coating, lbs./ft.

$$SG_{p/l} = \underline{2.0}$$

✓ c. Is our calculated SG = operator's given SG

$$\underline{2.0} = \underline{1.96}$$

NOTE: These values should be approximately the same. If not, resolve. If the SG is close to a value of 1, the pipeline is unacceptable and must be weighted with concrete or anchored securely to the bottom.

G. Verify the following general information:

I. Water Depth, ft. 51 (Max) (Min)

II. Burial Depth, ft. 3 ft.

III. Maximum Operating Pressure (MOP) 2140

IV. Capacity 22,000 MCF/D.

V. No. of lines: Existing 0 Proposed 0